

RADIO TEST REPORT

FCC ID: 2AYOQ-LCRDV2

Product: CONTROLLER

Trade Mark: DS18

Model No.: LC-RGBDRMV2

Family Model: N/A

Report No.: N26051909606E

Issue Date: Aug. 06, 2026

Prepared for

SPIRIT LLC

3580 SW 20th Street, Pembroke Park, FL, 33023, United States

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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1 TEST RESULT CERTIFICATION

Applicant's name	SPIRIT LLC
Address.....	3580 SW 20th Street, Pembroke Park, FL, 33023, United States
Manufacturer's Name	SPIRIT LLC
Address.....	3580 SW 20th Street, Pembroke Park, FL, 33023, United States
Product description	
Product name	CONTROLLER
Model and/or type reference	LC-RGBDRMV2
Family Model	N/A
Sample number	S2605210051-1#
Date of Test	May. 19, 2026 ~ Aug. 06, 2026

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	Complied

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

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Nikki Yang
(Project Engineer)

Reviewed By : Aaron Cheng
Aaron Cheng
(Supervisor)

Approved By : Alex Li
Alex Li
(Manager)

2 SUMMARY OF TEST RESULTS**FCC Part15 (15.247), Subpart C**

Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	N/A	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247(a)(1)	Hopping Channel Separation	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(a)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(iii)	Dwell Time	PASS	
15.247(a)(1)	Bandwidth	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	

Remark:

1. "N/A" denotes test is not applicable in this Test Report.
2. The EUT is DC-powered. AC conducted emission is not applicable.
3. All test items were verified and recorded according to the standards and without any deviation during the test.

3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.

CAB identifier:CN0074

FCC- Accredited : Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
5	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
6	All emissions, radiated(> 6GHz)	$\pm 2.52\text{dB}$
7	Temperature	$\pm 0.5^{\circ}\text{C}$
8	Humidity	$\pm 2\%$
9	All emissions, radiated(9KHz~30MHz)	$\pm 6\text{dB}$

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	CONTROLLER
Trade Mark	DS18
FCC ID	2AYOQ-LCRDV2
Model No.	LC-RGBDRMV2
Family Model	N/A
Model Difference	N/A
Operating Frequency	2402MHz~2480MHz
Modulation	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Number of Channels	79 Channels
Antenna Type	FPC Antenna
Antenna Gain	0 dBi
Adapter	N/A
Battery	N/A
Power supply	DC 12V
HW Version	N/A
FW Version	N/A
SW Version	N/A

Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

Revision History

[illegible]

5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation; 2Mbps for $\pi/4$ -DQPSK modulation; 3Mbps for 8-DPSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2403
...	...
39	2441
40	2442
...	...
77	2479
78	2480

Note: $f_c = 2402\text{MHz} + k \times 1\text{MHz}$ $k = 0$ to 78

The following summary table is showing all test modes to demonstrate in compliance with the standard.

For Radiated Test Cases	
Final Test Mode	Description
Mode 1	normal link mode
Mode 2	CH00(2402MHz)
Mode 3	CH39(2441MHz)
Mode 4	CH78(2480MHz)

Note: For radiated test cases, the worst mode data rate 3Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significant frequencies found in conducted spurious emission.

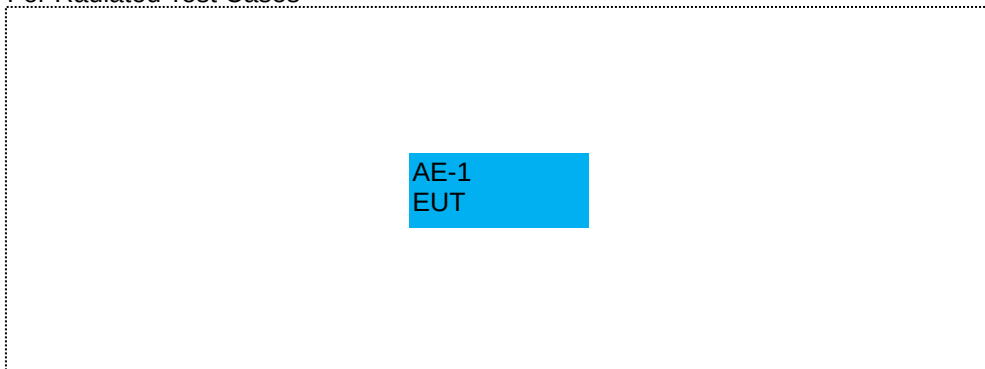
For Conducted Test Cases	
Final Test Mode	Description
Mode 2	CH00(2402MHz)
Mode 3	CH39(2441MHz)
Mode 4	CH78(2480MHz)
Mode 5	Hopping mode

Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

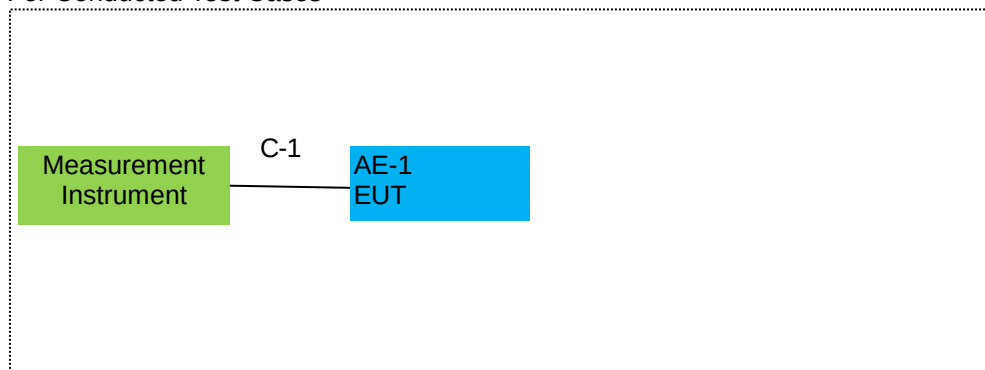
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

For Radiated Test Cases



For Conducted Test Cases



Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.
2. EUT built-in battery-powered, the battery is fully-charged.

6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	CONTROLLER	LC-RGBDRMV2	N/A	EUT
AE-2	Adapter	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2026.04.15	2027.04.14	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2026.04.08	2027.04.07	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2026.04.08	2027.04.07	1 year
4	Test Receiver	R&S	ESPI7	101318	N/A	N/A	N/A
5	Bilog Antenna	ETS	3142E	00214344	2024.06.01	2027.05.30	3 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835SE	980246	2026.04.08	2027.04.07	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN084	2026.04.08	2027.04.07	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2024.05.06	2027.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2024.05.06	2027.05.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2024.05.06	2027.05.05	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

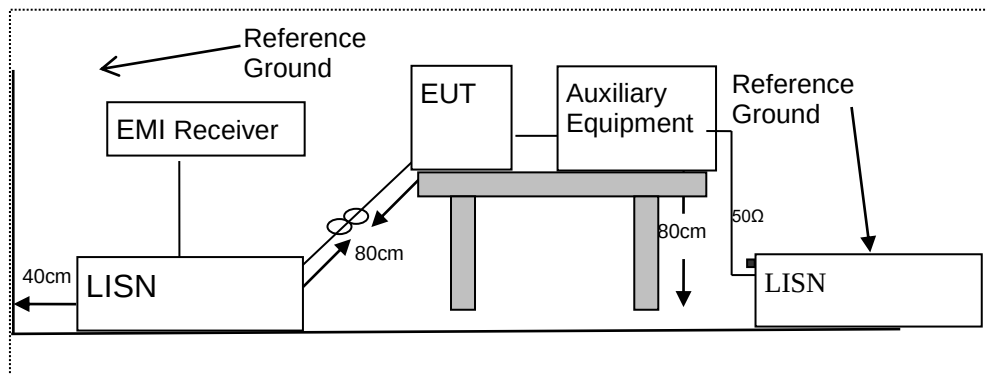
According to FCC Part 15.207(a)

7.1.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency
2. The lower limit shall apply at the transition frequencies
3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Test Configuration



7.1.4 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

7.1.5 Test Results

EUT:	CONTROLLER	Model Name :	LC-RGBDRMV2
Temperature:	24.2℃	Relative Humidity:	52.2%
Pressure:	1010hPa	Phase :	N/A
Test Voltage :	N/A	Test Mode:	N/A

Note: The EUT is battery-powered. AC conducted emission is not applicable.

7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

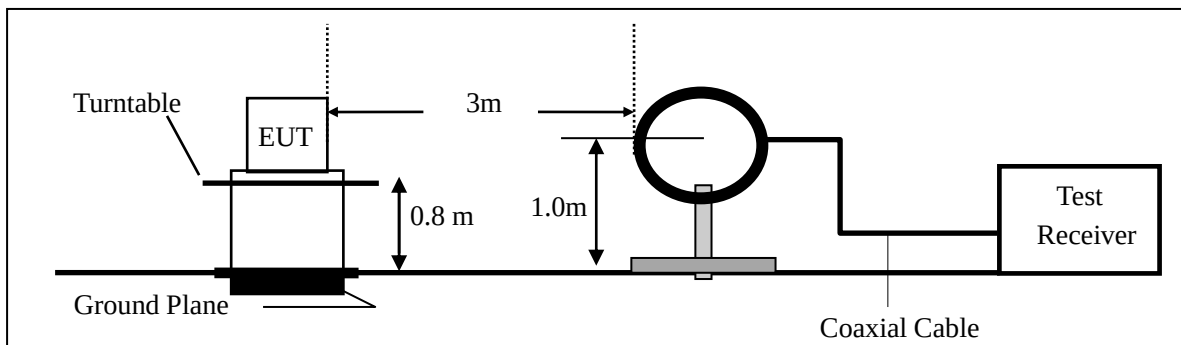
Remark :1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. For Frequency 9kHz~30MHz:
Distance extrapolation factor =40log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.
For Frequency above 30MHz:
Distance extrapolation factor =20log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.

7.2.3 Measuring Instruments

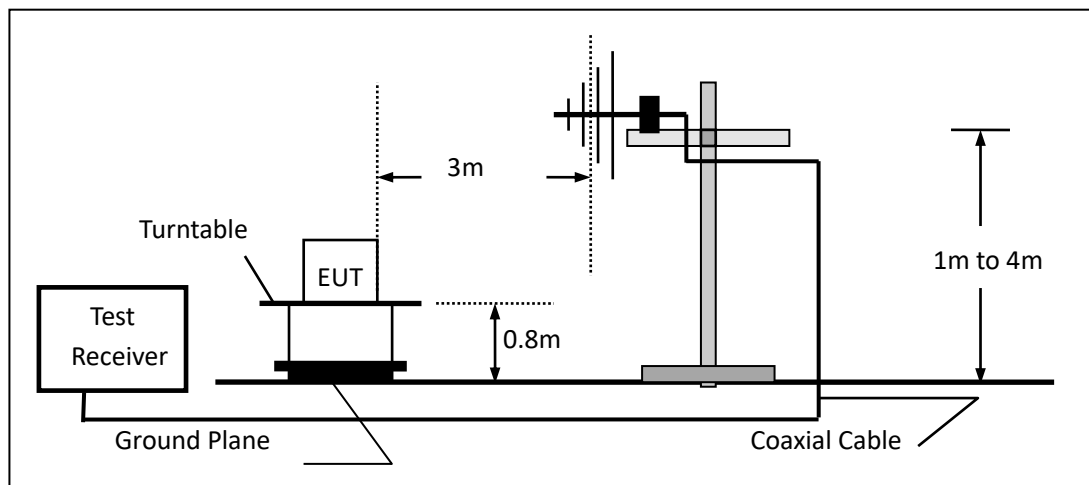
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

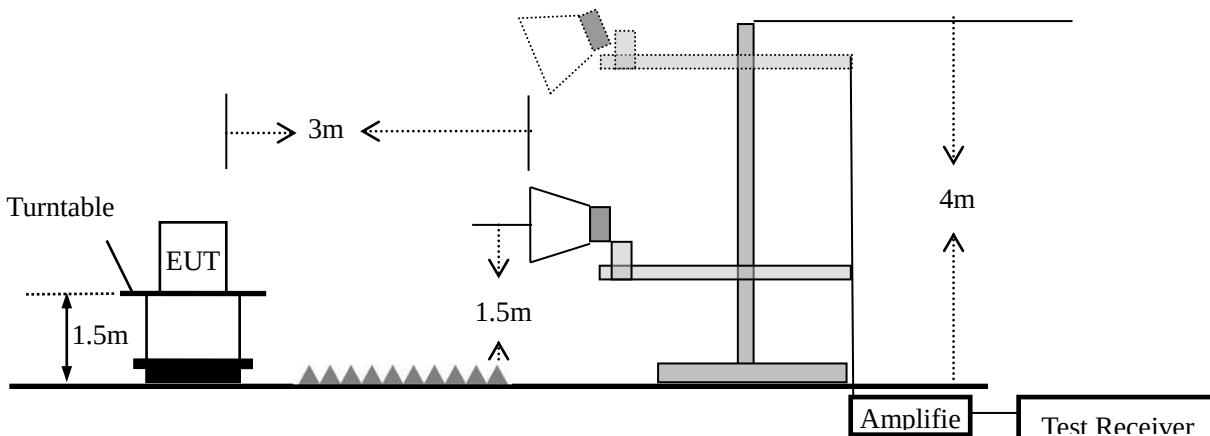
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1 MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	CONTROLLER	Model No.:	LC-RGBDRMV2
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Nikki Yang

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission below 1GHz (30MHz to 1GHz)

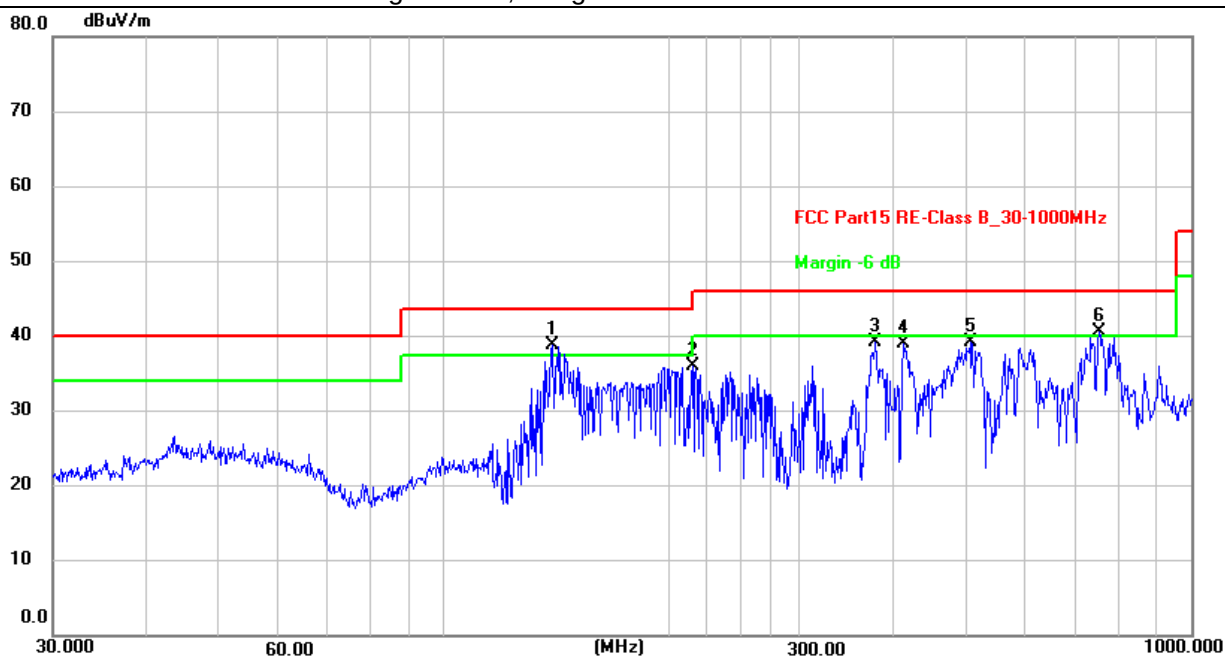
All the modulation modes have been tested, and the worst result was report as below:

EUT:	CONTROLLER	Model Name :	LC-RGBDRMV2
Temperature:	21.4 °C	Relative Humidity:	62.5%
Pressure:	1010hPa	Test Mode:	Mode 3(8-DPSK)
Test Voltage:	DC 12V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	139.8507	24.03	14.71	38.74	43.50	-4.76	QP
V	215.2677	17.75	18.25	36.00	43.50	-7.50	QP
V	378.5842	16.92	22.28	39.20	46.00	-6.80	QP
V	413.2706	16.08	22.93	39.01	46.00	-6.99	QP
V	506.4790	14.79	24.45	39.24	46.00	-6.76	QP
V	752.7431	12.11	28.42	40.53	46.00	-5.47	QP

Remark:

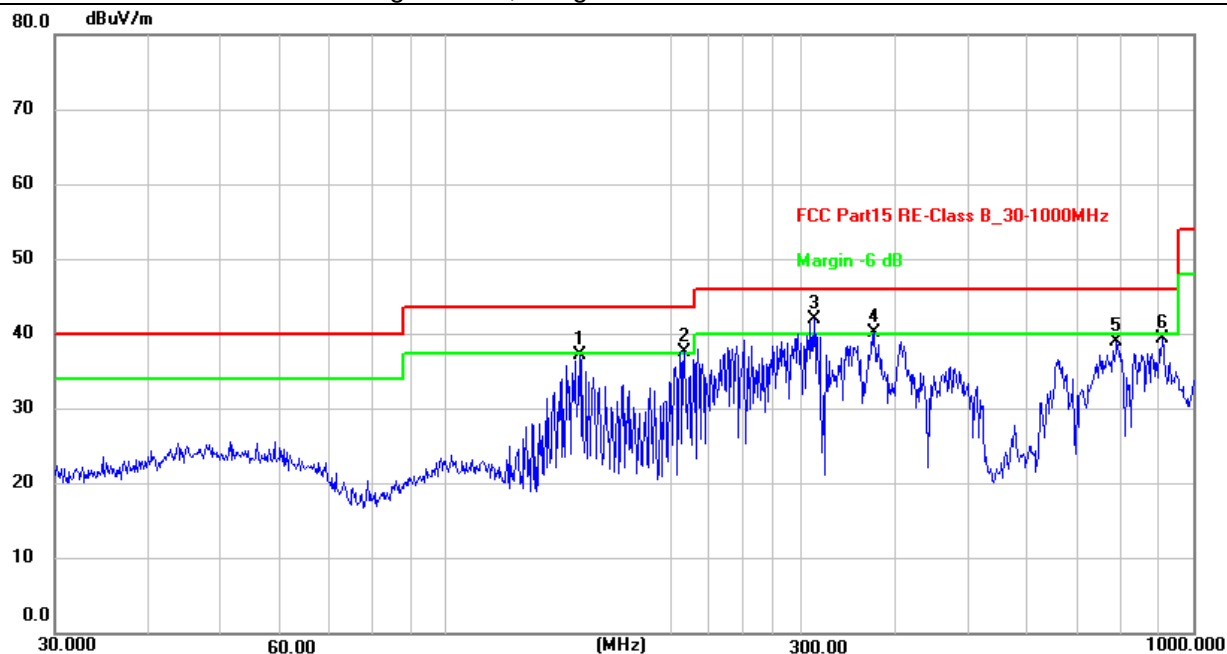
Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	151.0663	22.71	14.59	37.30	43.50	-6.20	QP
H	208.5800	19.55	18.13	37.68	43.50	-5.82	QP
H	311.0865	21.08	20.85	41.93	46.00	-4.07	QP
H	374.6225	18.03	22.19	40.22	46.00	-5.78	QP
H	790.6186	10.10	28.89	38.99	46.00	-7.01	QP
H	909.6666	9.25	30.25	39.50	46.00	-6.50	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



■ Spurious Emission Above 1GHz (1GHz to 18GHz)

EUT:	CONTROLLER	Model No.:	LC-RGBDRMV2
Temperature:	26.3 °C	Relative Humidity:	56.7%
Test Mode:	Mode2/Mode3/Mode4-8-DPS K	Test By:	Nikki Yang

2402

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1221.425	59.69	-18.17	41.52	74.00	-32.48	peak
V	1221.425	51.38	-18.17	33.21	54.00	-20.79	AVG
V	2020.850	55.35	-13.30	42.05	74.00	-31.95	peak
V	2020.850	48.02	-13.30	34.72	54.00	-19.28	AVG
V	2790.100	55.16	-10.50	44.66	74.00	-29.34	peak
V	2790.100	47.26	-10.50	36.76	54.00	-17.24	AVG
V	4804.600	51.90	-7.02	44.88	74.00	-29.12	peak
V	4804.600	49.20	-7.02	42.18	54.00	-11.82	AVG
V	9608.375	47.46	0.82	48.28	74.00	-25.72	peak
V	9608.375	44.71	0.82	45.53	54.00	-8.47	AVG
V	16107.900	44.32	6.01	50.33	74.00	-23.67	peak
V	16107.900	35.93	6.01	41.94	54.00	-12.06	AVG

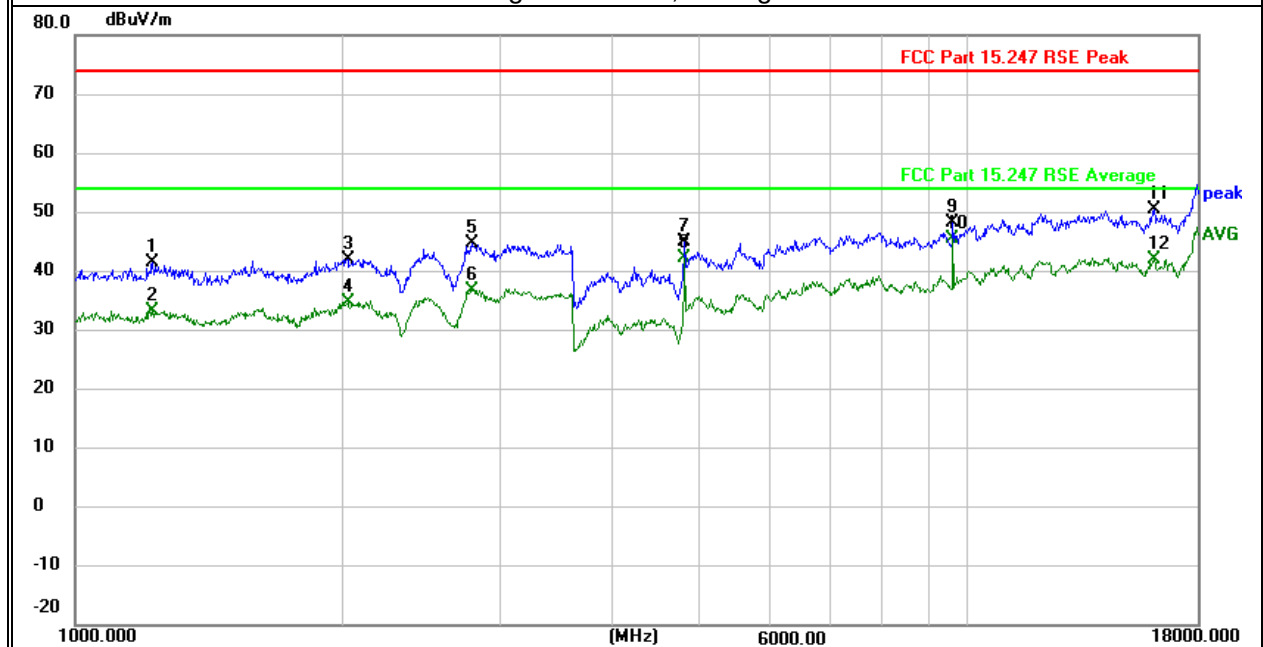
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1032.300	51.53	-18.59	32.94	54.00	-21.06	AVG
H	1068.000	59.16	-18.29	40.87	74.00	-33.13	peak
H	1563.975	57.90	-16.78	41.12	74.00	-32.88	peak
H	1588.200	50.14	-16.51	33.63	54.00	-20.37	AVG
H	2765.450	56.23	-10.70	45.53	74.00	-28.47	peak
H	2799.875	47.68	-10.42	37.26	54.00	-16.74	AVG
H	4804.600	58.68	-7.02	51.66	74.00	-22.34	peak
H	4804.600	56.89	-7.02	49.87	54.00	-4.13	AVG
H	9608.375	46.44	0.82	47.26	74.00	-26.74	peak
H	9608.375	42.70	0.82	43.52	54.00	-10.48	AVG
H	13397.250	36.81	5.07	41.88	54.00	-12.12	AVG
H	13593.175	44.85	4.97	49.82	74.00	-24.18	peak

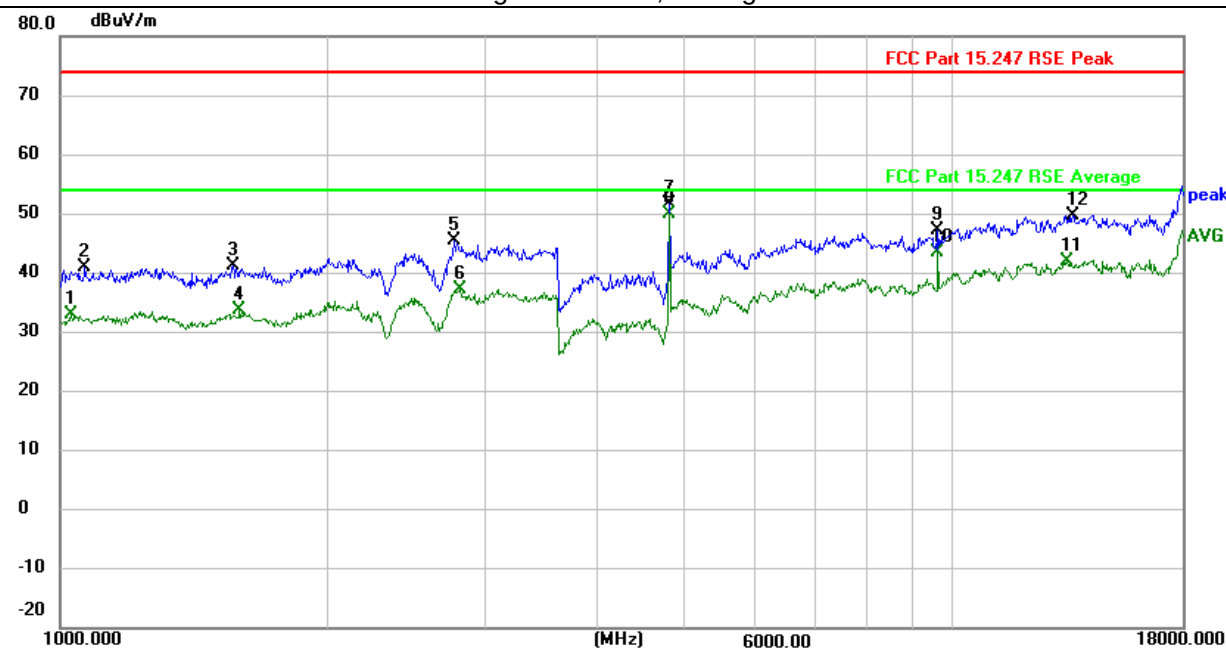
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2441

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1110.925	59.03	-18.17	40.86	74.00	-33.14	peak
V	1110.925	50.55	-18.17	32.38	54.00	-21.62	AVG
V	2020.000	55.26	-13.31	41.95	74.00	-32.05	peak
V	2020.000	47.24	-13.31	33.93	54.00	-20.07	AVG
V	2813.475	54.88	-10.35	44.53	74.00	-29.47	peak
V	2813.475	46.38	-10.35	36.03	54.00	-17.97	AVG
V	4882.375	51.99	-7.25	44.74	74.00	-29.26	peak
V	4882.375	48.55	-7.25	41.30	54.00	-12.70	AVG
V	9764.350	48.16	0.42	48.58	74.00	-25.42	peak
V	9764.350	45.06	0.42	45.48	54.00	-8.52	AVG
V	14278.275	43.83	5.79	49.62	74.00	-24.38	peak
V	14278.275	36.23	5.79	42.02	54.00	-11.98	AVG

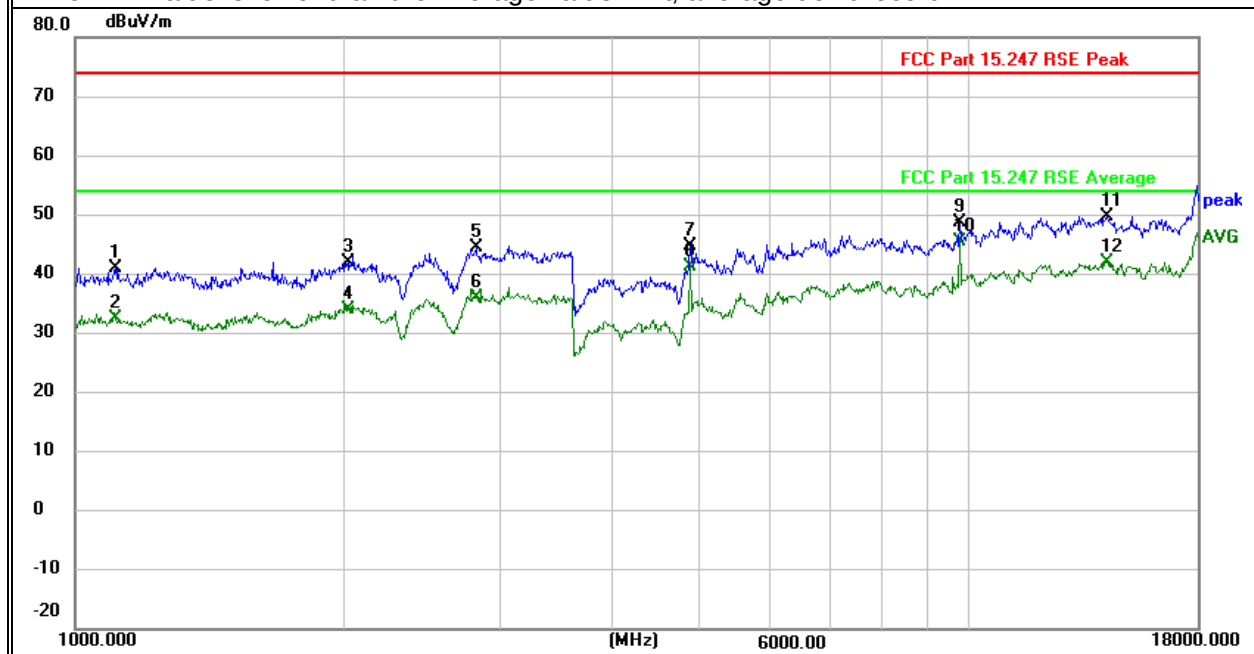
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1300.475	58.61	-17.85	40.76	74.00	-33.24	peak
H	1300.475	50.21	-17.85	32.36	54.00	-21.64	AVG
H	1970.275	55.51	-14.26	41.25	74.00	-32.75	peak
H	1970.275	48.04	-14.26	33.78	54.00	-20.22	AVG
H	3110.550	47.98	-9.54	38.44	74.00	-35.56	peak
H	3110.550	46.12	-9.54	36.58	54.00	-17.42	AVG
H	4882.800	57.44	-7.25	50.19	74.00	-23.81	peak
H	4882.800	54.68	-7.25	47.43	54.00	-6.57	AVG
H	9764.350	48.28	0.42	48.70	74.00	-25.30	peak
H	9764.350	46.01	0.42	46.43	54.00	-7.57	AVG
H	16116.825	44.07	6.01	50.08	74.00	-23.92	peak
H	16116.825	35.72	6.01	41.73	54.00	-12.27	AVG

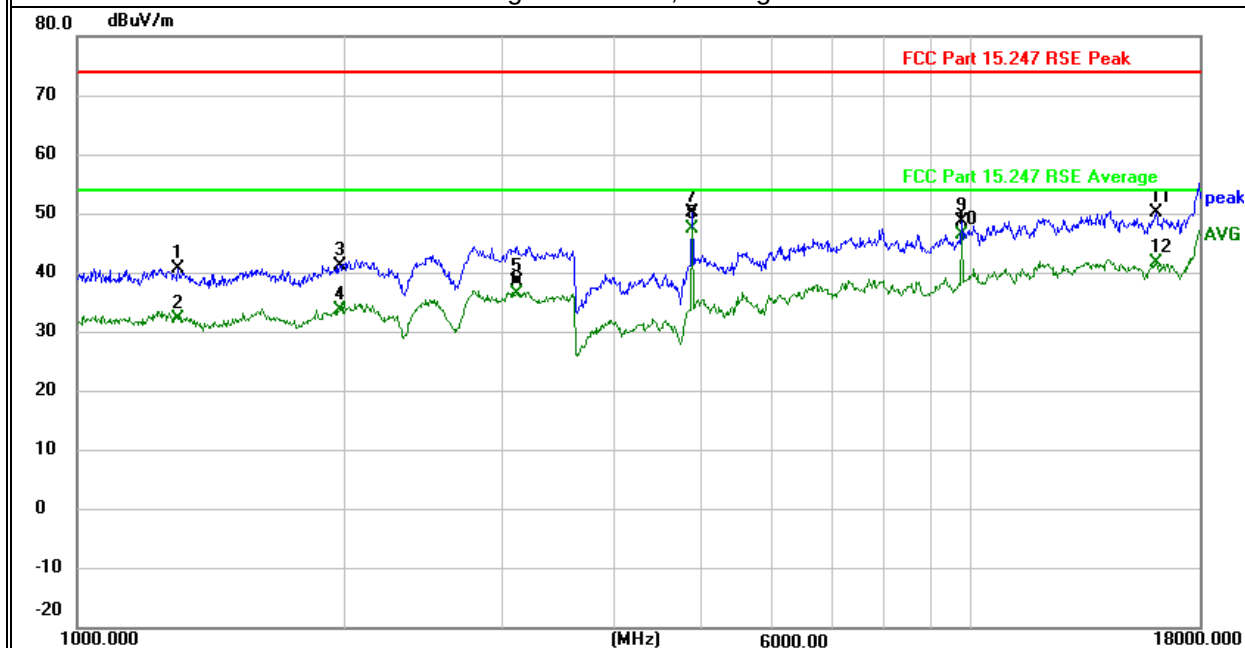
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2480

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1255.850	59.46	-17.87	41.59	74.00	-32.41	peak
V	1255.850	50.12	-17.87	32.25	54.00	-21.75	AVG
V	1991.950	56.14	-13.78	42.36	74.00	-31.64	peak
V	1991.950	47.69	-13.78	33.91	54.00	-20.09	AVG
V	3113.525	55.22	-9.52	45.70	74.00	-28.30	peak
V	3113.525	46.10	-9.52	36.58	54.00	-17.42	AVG
V	4960.575	51.08	-6.07	45.01	74.00	-28.99	peak
V	4960.575	46.27	-6.07	40.20	54.00	-13.80	AVG
V	9920.325	49.32	0.79	50.11	74.00	-23.89	peak
V	9920.325	44.97	0.79	45.76	54.00	-8.24	AVG
V	14211.550	44.27	5.71	49.98	74.00	-24.02	peak
V	14211.550	36.40	5.71	42.11	54.00	-11.89	AVG

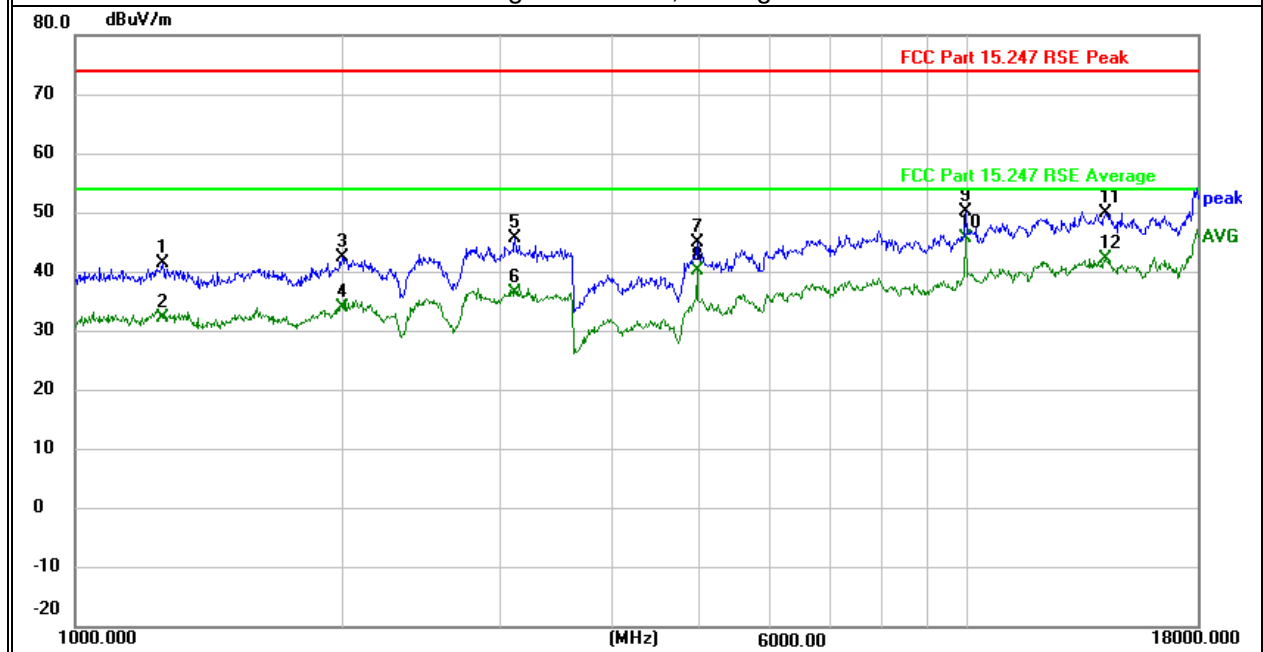
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1227.800	59.18	-18.11	41.07	74.00	-32.93	peak
H	1227.800	52.18	-18.11	34.07	54.00	-19.93	AVG
H	2141.975	56.38	-12.73	43.65	74.00	-30.35	peak
H	2141.975	46.68	-12.73	33.95	54.00	-20.05	AVG
H	3050.200	54.63	-9.61	45.02	74.00	-28.98	peak
H	3050.200	46.03	-9.61	36.42	54.00	-17.58	AVG
H	4960.575	54.91	-6.07	48.84	74.00	-25.16	peak
H	4960.575	51.39	-6.07	45.32	54.00	-8.68	AVG
H	9920.325	48.10	0.79	48.89	74.00	-25.11	peak
H	9920.325	43.61	0.79	44.40	54.00	-9.60	AVG
H	13996.925	44.64	5.66	50.30	74.00	-23.70	peak
H	13996.925	35.91	5.66	41.57	54.00	-12.43	AVG

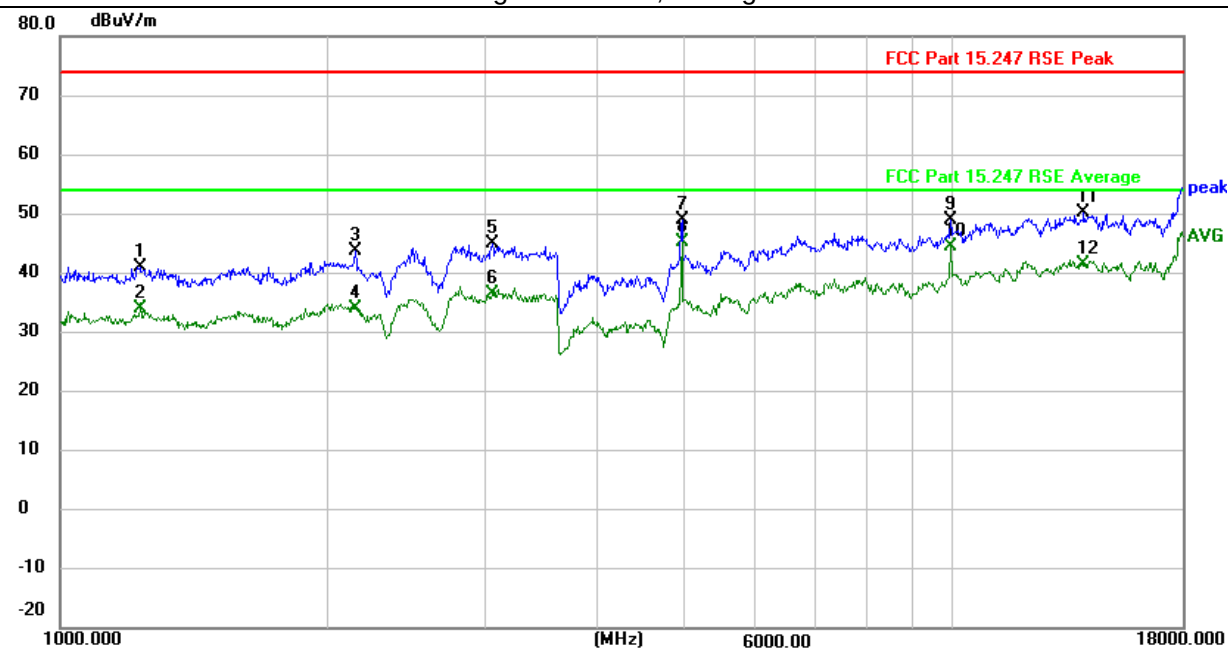
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



■ Spurious Emission Above 1GHz (18GHz to 25GHz)

EUT:	CONTROLLER	Model No.:	LC-RGBDRMV2
Temperature:	26.3 °C	Relative Humidity:	56.7%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Nikki Yang

2402

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	18834.925	51.31	-14.39	36.92	54.00	-17.08	AVG
V	18868.000	58.67	-14.33	44.34	74.00	-29.66	peak
V	19417.500	59.04	-13.59	45.45	74.00	-28.55	peak
V	19565.375	51.34	-13.33	38.01	54.00	-15.99	AVG
V	20374.575	50.30	-12.46	37.84	54.00	-16.16	AVG
V	20454.025	57.94	-12.26	45.68	74.00	-28.32	peak
V	22127.025	50.28	-11.89	38.39	54.00	-15.61	AVG
V	22189.675	57.56	-11.84	45.72	74.00	-28.28	peak
V	22934.650	57.05	-11.79	45.26	74.00	-28.74	peak
V	22975.775	49.11	-11.79	37.32	54.00	-16.68	AVG
V	23826.625	48.79	-11.40	37.39	54.00	-16.61	AVG
V	23860.050	56.28	-11.33	44.95	74.00	-29.05	peak

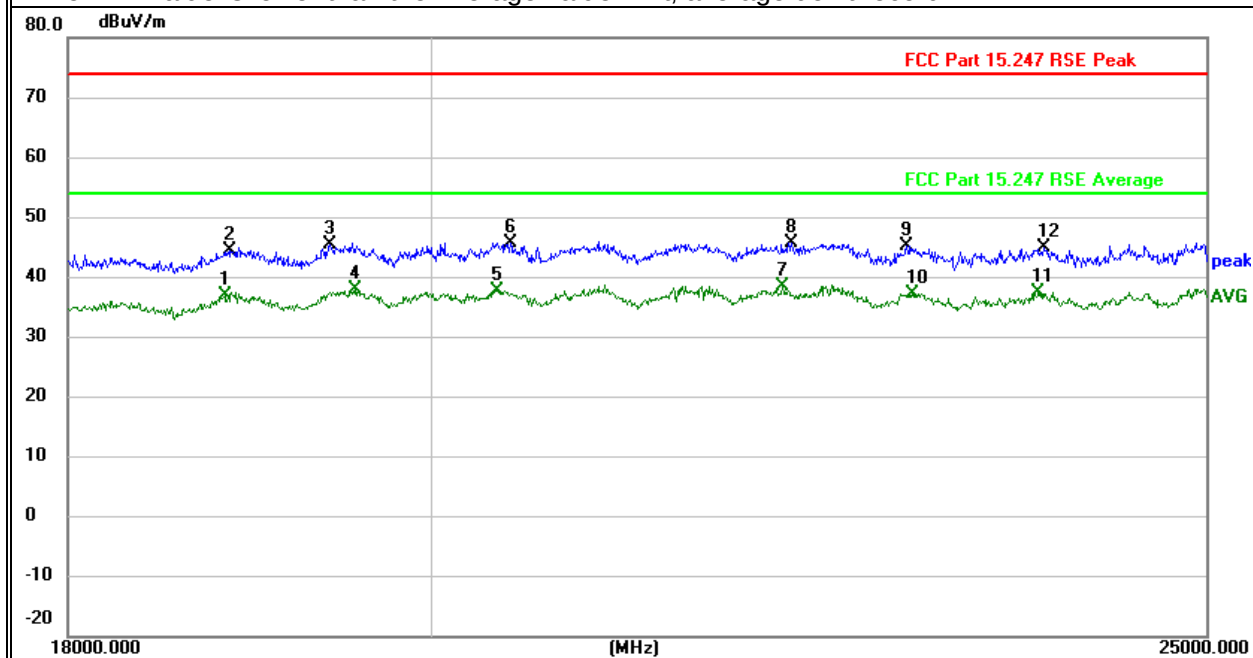
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2402

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	18884.625	59.33	-14.29	45.04	74.00	-28.96	peak
H	19020.425	51.68	-14.05	37.63	54.00	-16.37	AVG
H	20369.500	51.12	-12.47	38.65	54.00	-15.35	AVG
H	20386.650	58.39	-12.42	45.97	74.00	-28.03	peak
H	21506.300	50.50	-12.26	38.24	54.00	-15.76	AVG
H	21545.500	58.30	-12.26	46.04	74.00	-27.96	peak
H	22035.850	50.48	-11.97	38.51	54.00	-15.49	AVG
H	22257.050	57.48	-11.79	45.69	74.00	-28.31	peak
H	22991.700	58.47	-11.79	46.68	74.00	-27.32	peak
H	22998.700	50.45	-11.79	38.66	54.00	-15.34	AVG
H	23812.800	49.09	-11.43	37.66	54.00	-16.34	AVG
H	23864.250	56.78	-11.33	45.45	74.00	-28.55	peak

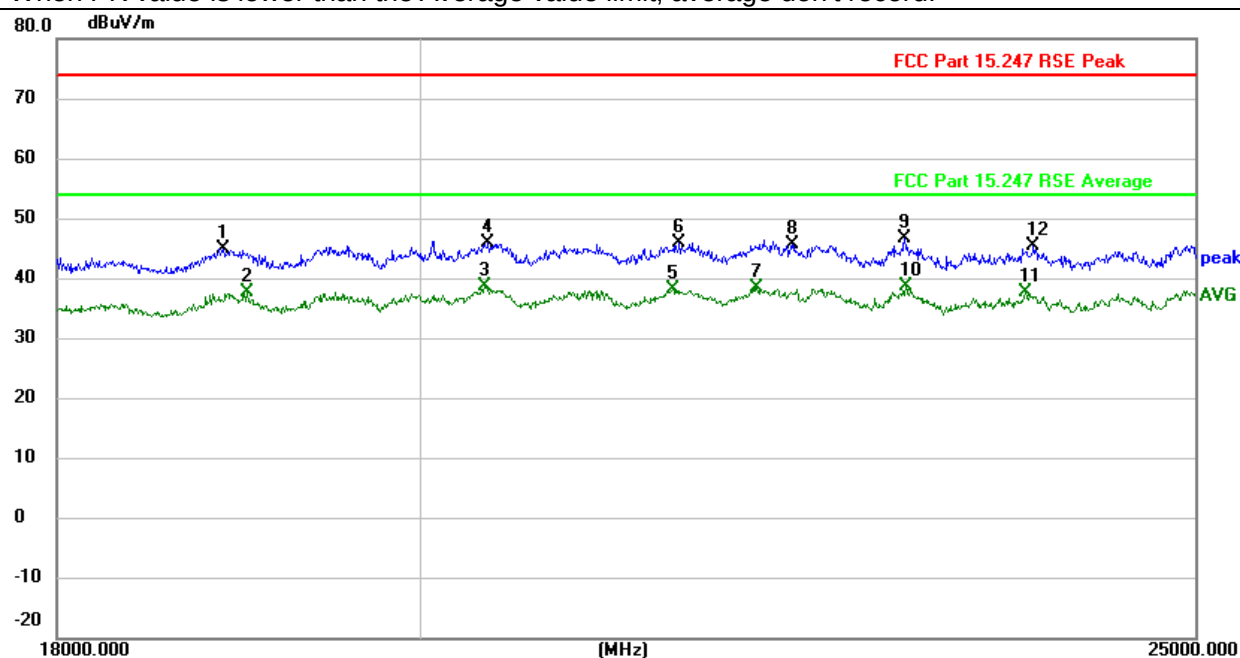
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2441

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	18877.625	52.40	-14.32	38.08	54.00	-15.92	AVG
V	18914.025	59.73	-14.24	45.49	74.00	-28.51	peak
V	19961.575	50.63	-12.56	38.07	54.00	-15.93	AVG
V	20067.975	58.88	-12.57	46.31	74.00	-27.69	peak
V	20983.750	58.73	-12.29	46.44	74.00	-27.56	peak
V	21023.650	51.53	-12.30	39.23	54.00	-14.77	AVG
V	22127.025	50.78	-11.89	38.89	54.00	-15.11	AVG
V	22189.675	58.06	-11.84	46.22	74.00	-27.78	peak
V	23706.400	56.81	-11.54	45.27	74.00	-28.73	peak
V	23924.625	49.18	-11.19	37.99	54.00	-16.01	AVG
V	24453.650	57.15	-11.20	45.95	74.00	-28.05	peak
V	24462.400	49.05	-11.18	37.87	54.00	-16.13	AVG

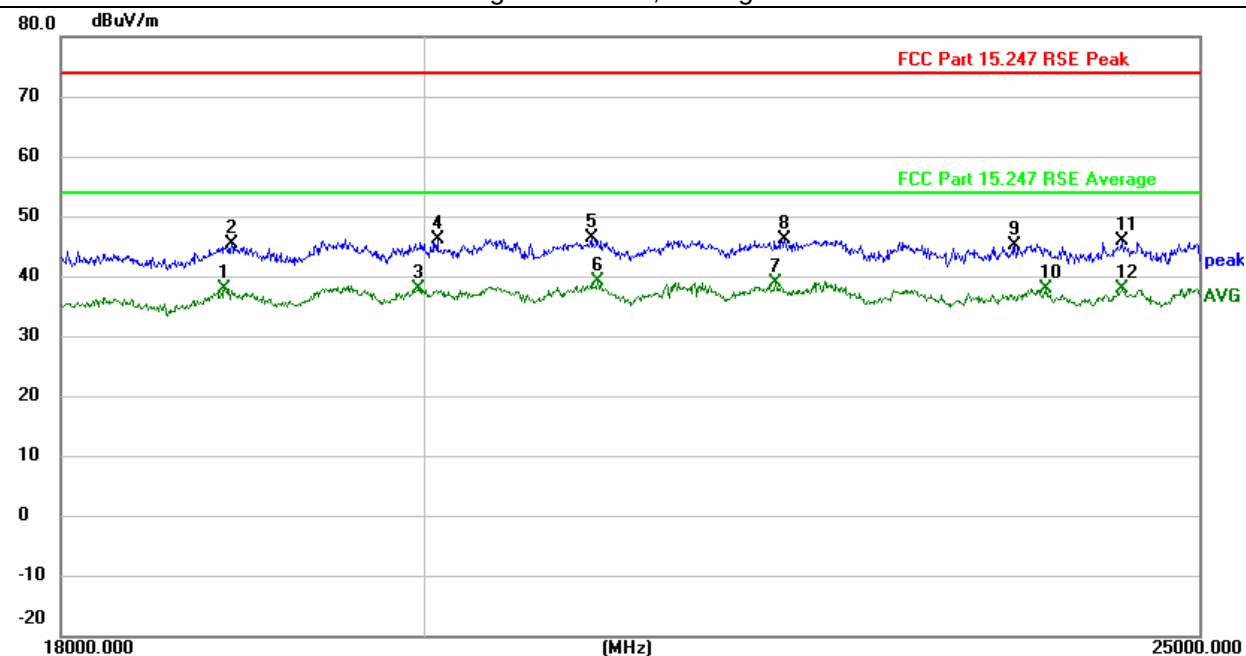
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2441

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	18915.775	52.24	-14.23	38.01	54.00	-15.99	AVG
H	18931.350	59.52	-14.21	45.31	74.00	-28.69	peak
H	19462.825	59.32	-13.53	45.79	74.00	-28.21	peak
H	19511.125	51.75	-13.46	38.29	54.00	-15.71	AVG
H	20369.500	51.62	-12.47	39.15	54.00	-14.85	AVG
H	20386.650	58.89	-12.42	46.47	74.00	-27.53	peak
H	21506.300	51.00	-12.26	38.74	54.00	-15.26	AVG
H	21545.500	58.80	-12.26	46.54	74.00	-27.46	peak
H	22160.800	50.62	-11.86	38.76	54.00	-15.24	AVG
H	22257.050	57.98	-11.79	46.19	74.00	-27.81	peak
H	23812.800	49.59	-11.43	38.16	54.00	-15.84	AVG
H	23864.250	57.28	-11.33	45.95	74.00	-28.05	peak

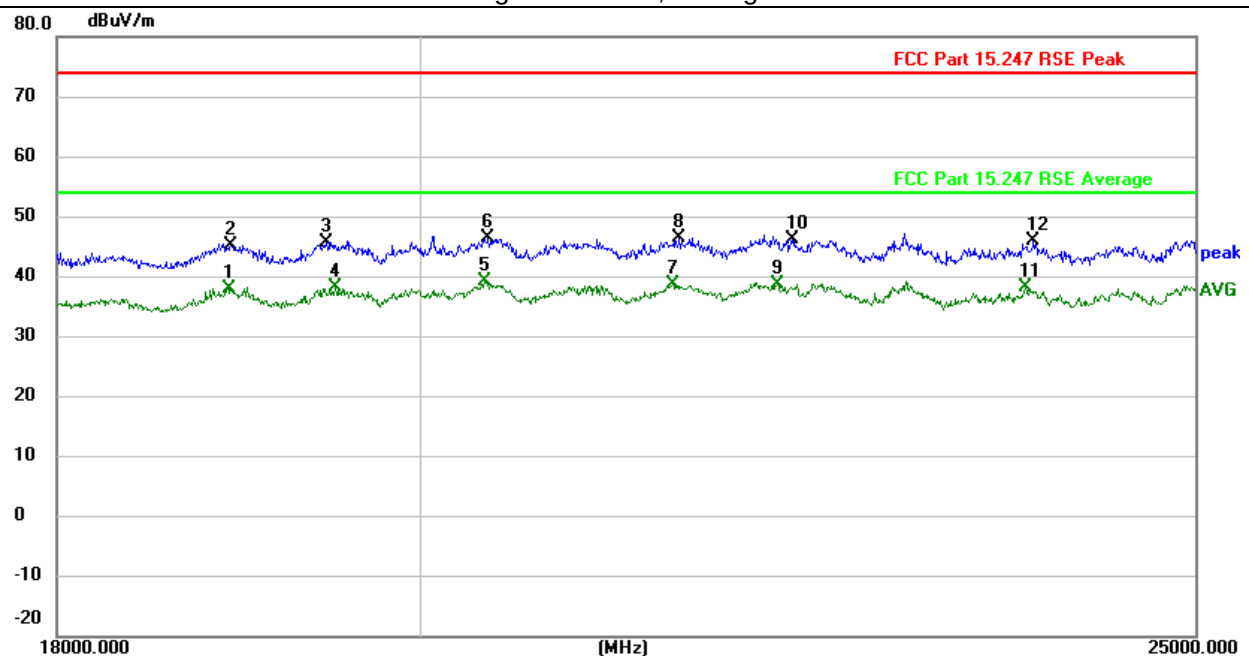
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2480

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	18233.800	50.76	-14.66	36.10	54.00	-17.90	AVG
V	18281.225	57.89	-14.67	43.22	74.00	-30.78	peak
V	19538.075	51.19	-13.39	37.80	54.00	-16.20	AVG
V	19544.725	58.55	-13.38	45.17	74.00	-28.83	peak
V	20374.575	49.80	-12.46	37.34	54.00	-16.66	AVG
V	20454.025	57.94	-12.26	45.68	74.00	-28.32	peak
V	21603.250	57.65	-12.26	45.39	74.00	-28.61	peak
V	21660.300	50.74	-12.27	38.47	54.00	-15.53	AVG
V	22934.650	57.55	-11.79	45.76	74.00	-28.24	peak
V	22975.775	49.61	-11.79	37.82	54.00	-16.18	AVG
V	24931.750	55.64	-10.03	45.61	74.00	-28.39	peak
V	24984.425	47.87	-9.78	38.09	54.00	-15.91	AVG

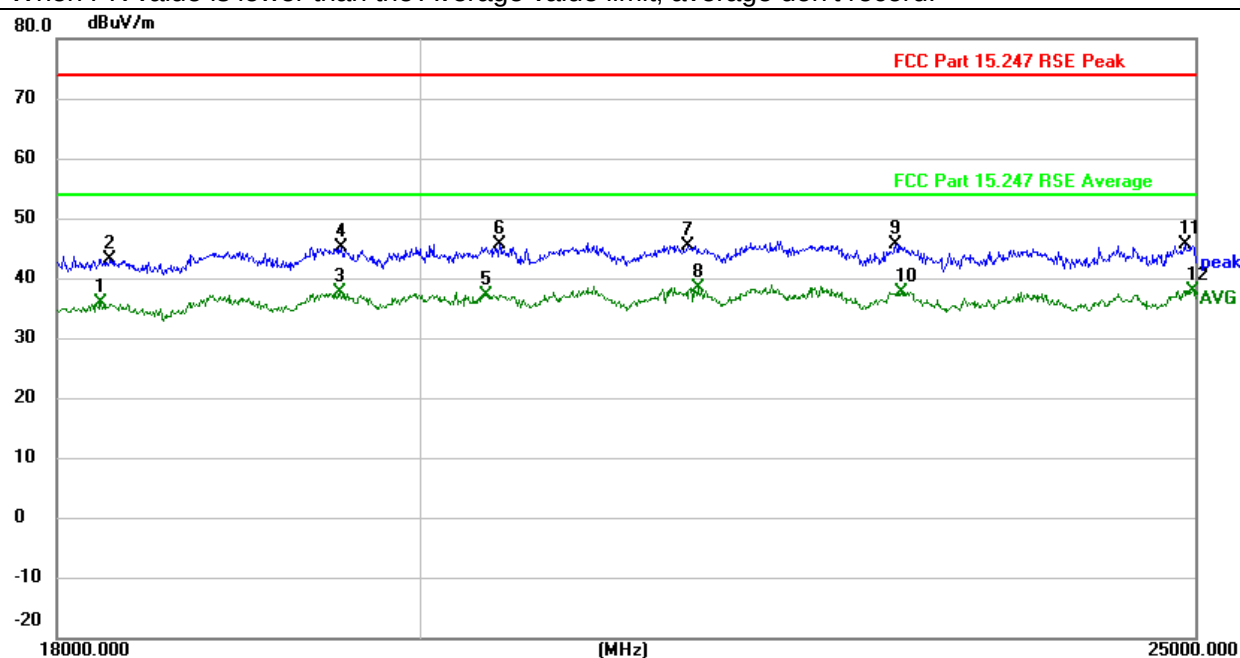
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2480

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	18221.375	58.21	-14.66	43.55	74.00	-30.45	peak
H	18234.500	50.88	-14.66	36.22	54.00	-17.78	AVG
H	18931.350	59.02	-14.21	44.81	74.00	-29.19	peak
H	19007.300	51.61	-14.06	37.55	54.00	-16.45	AVG
H	20369.500	50.62	-12.47	38.15	54.00	-15.85	AVG
H	20386.650	57.89	-12.42	45.47	74.00	-28.53	peak
H	21506.300	51.00	-12.26	38.74	54.00	-15.26	AVG
H	21545.500	57.80	-12.26	45.54	74.00	-28.46	peak
H	22991.700	57.47	-11.79	45.68	74.00	-28.32	peak
H	22998.700	50.45	-11.79	38.66	54.00	-15.34	AVG
H	24455.225	55.65	-11.20	44.45	74.00	-29.55	peak
H	24455.225	48.73	-11.20	37.53	54.00	-16.47	AVG

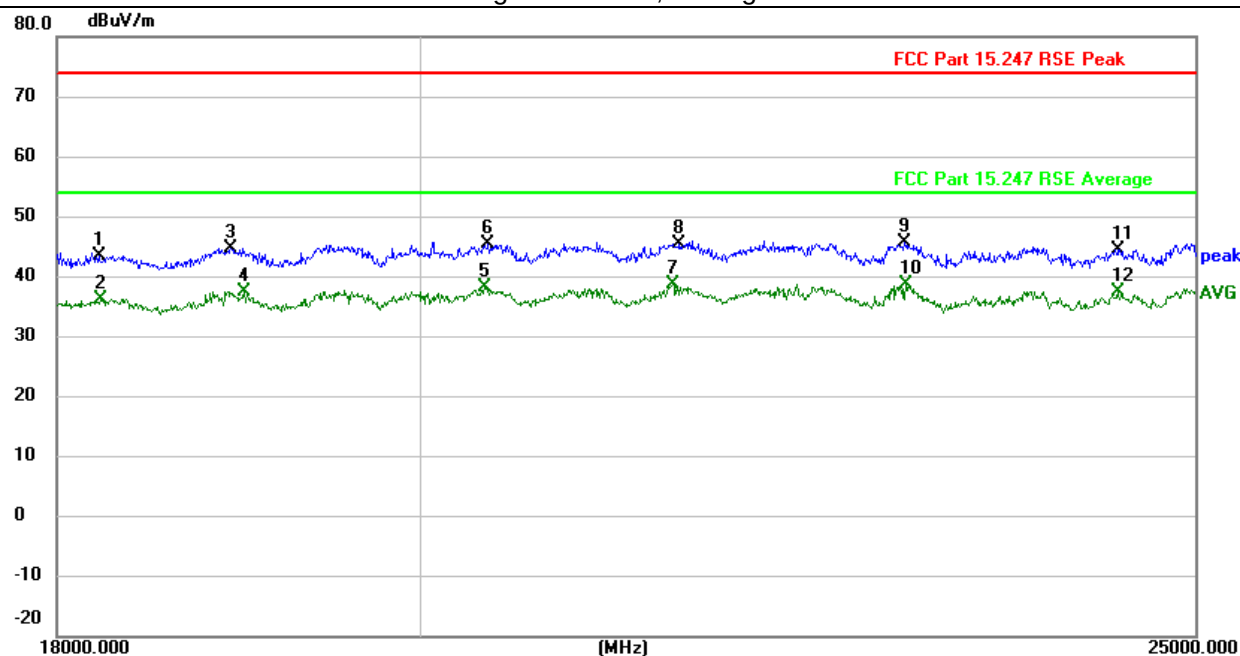
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



■ Radiated Spurious at Band Edges

EUT:	CONTROLLER	Model No.:	LC-RGBDRMV2
Temperature:	26.3 °C	Relative Humidity:	56.7%
Test Mode:	Mode2/ Mode4-8-DPSK	Test By:	Nikki Yang

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	2390.000	21.42	29.88	51.30	74.00	-22.70	peak
V	2390.000	11.95	29.88	41.83	54.00	-12.17	AVG

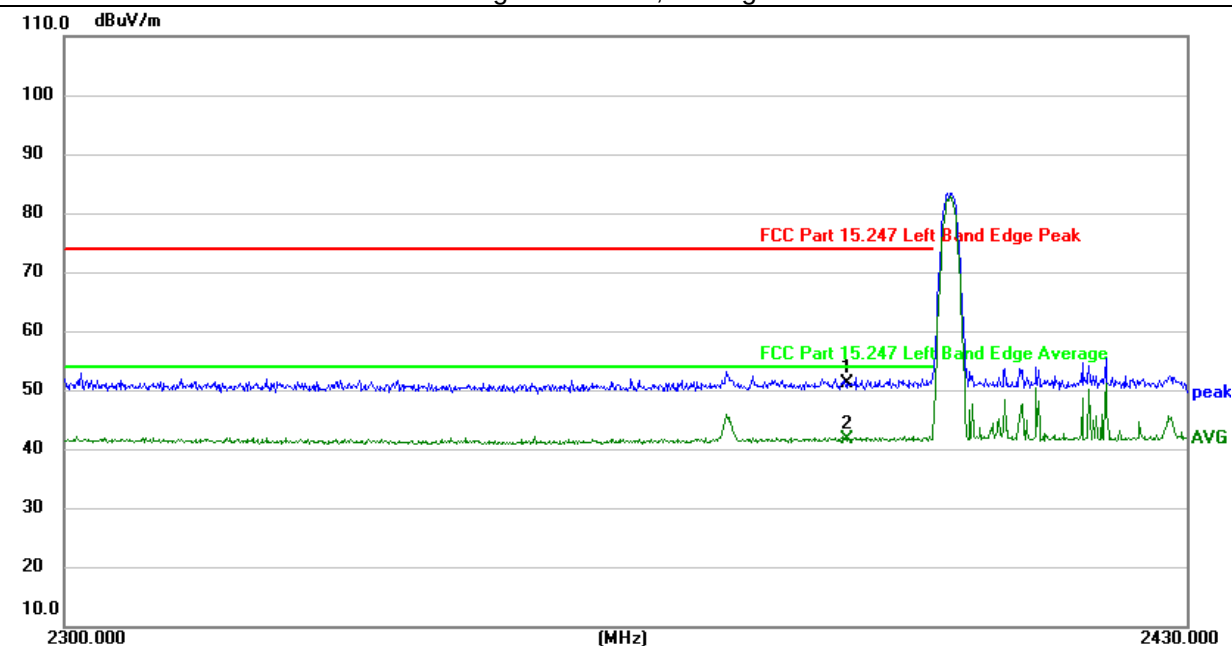
Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	2390.000	21.37	29.88	51.25	74.00	-22.75	peak
H	2390.000	11.62	29.88	41.50	54.00	-12.50	AVG

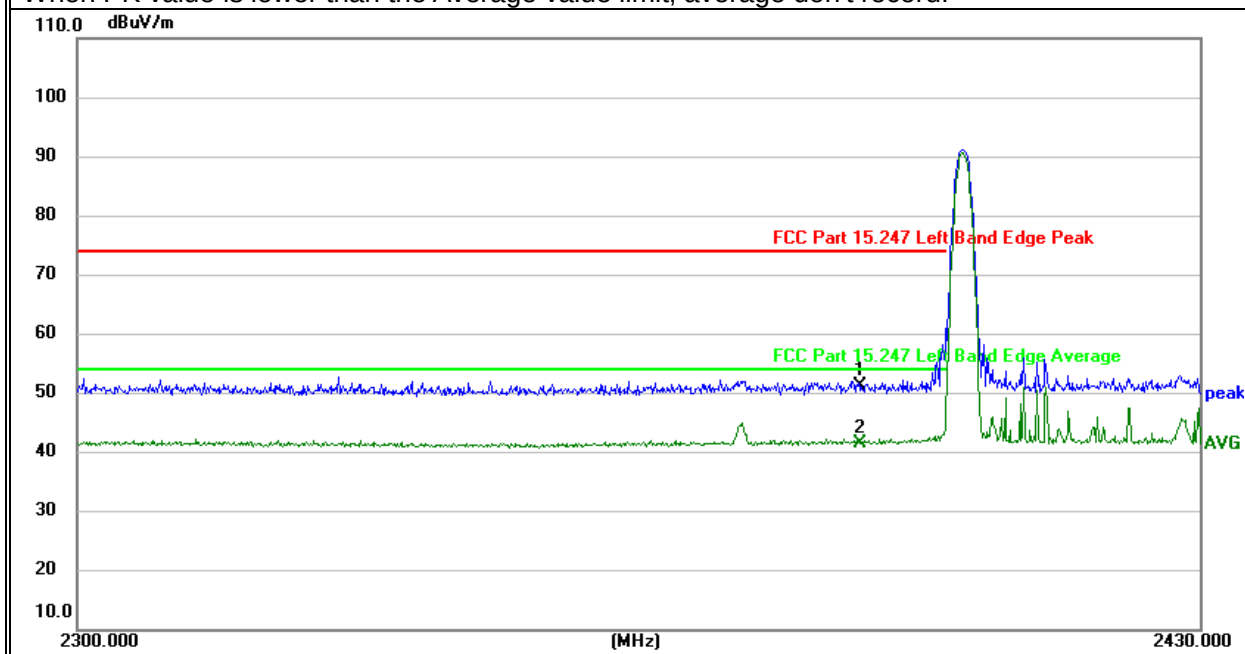
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	2483.500	21.60	30.69	52.29	74.00	-21.71	peak
V	2483.500	12.08	30.69	42.77	54.00	-11.23	AVG

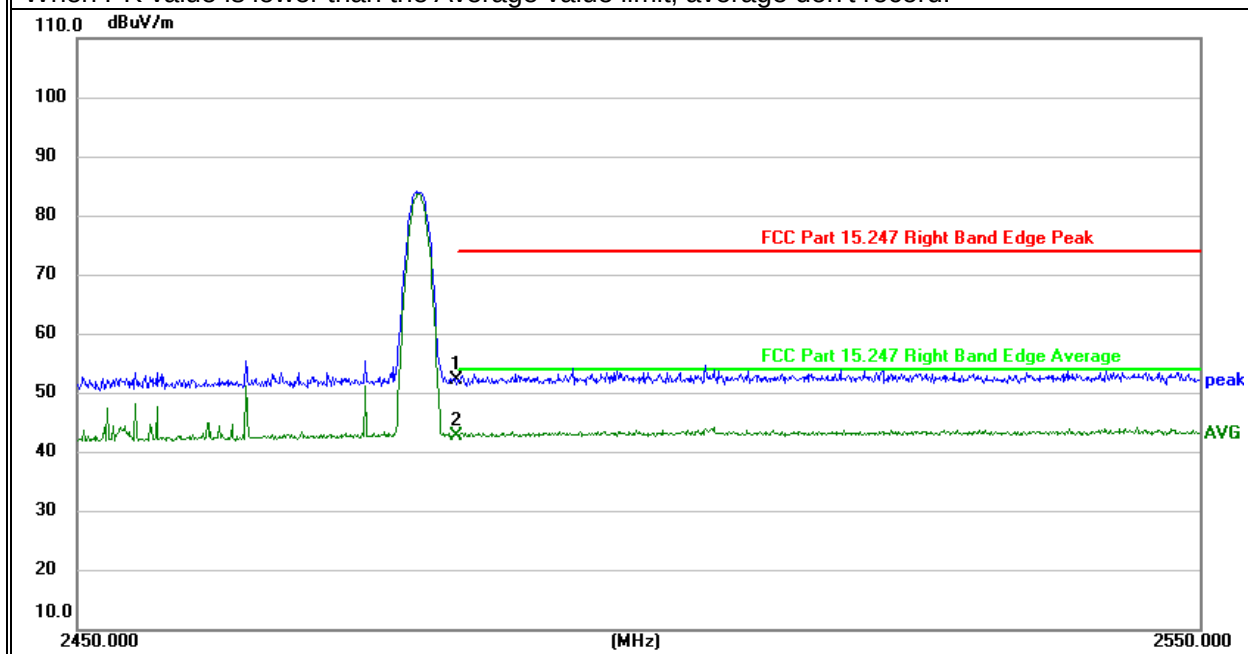
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	2483.500	24.52	30.69	55.21	74.00	-18.79	peak
H	2483.500	12.93	30.69	43.62	54.00	-10.38	AVG

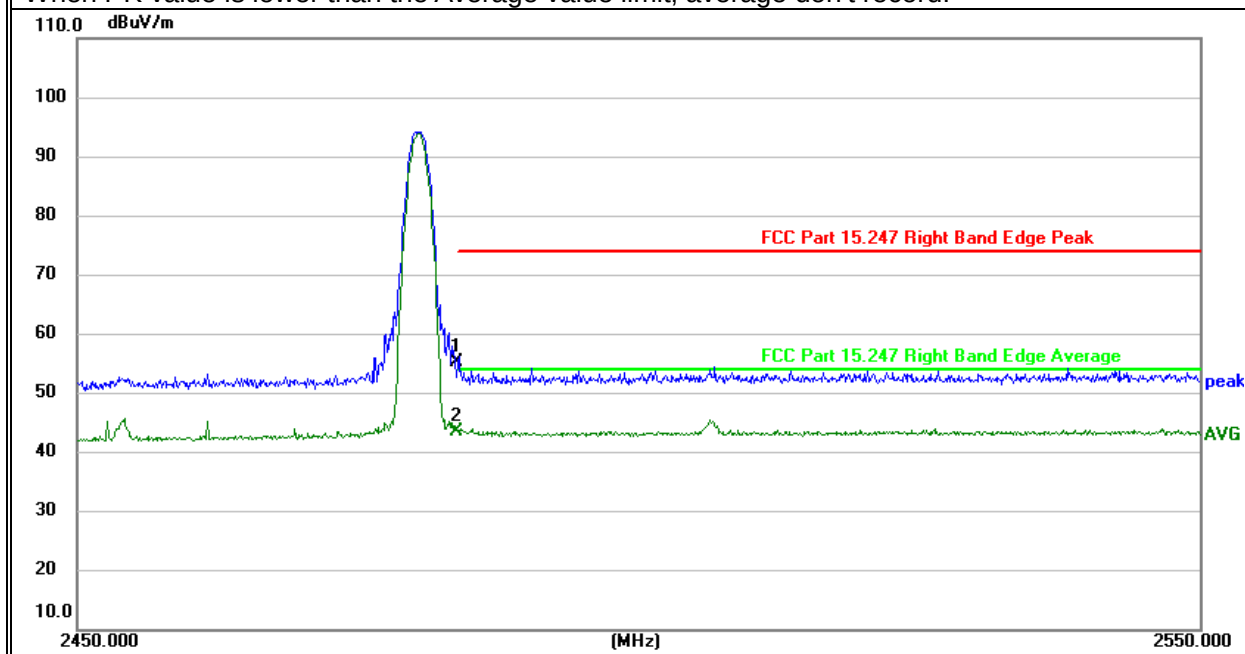
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 8-DPSK. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (iii) and ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

7.3.2 Conformance Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 clause 7.8.3

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW : To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

7.3.6 Test Results

EUT:	CONTROLLER	Model No.:	LC-RGBDRMV2
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode 5	Test By:	Nikki Yang

Test data reference attachment.

7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

7.4.2 Conformance Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band shall have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 clause 7.8.2

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Measurement Bandwidth or Channel Separation

RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

7.4.6 Test Results

EUT:	CONTROLLER	Model No.:	LC-RGBDRMV2
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Nikki Yang

Test data reference attachment.

7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

7.5.2 Conformance Limit

The average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 clause 7.8.4

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

RBW $\geq$ 1MHz

VBW $\geq$ RBW

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

Measure the maximum time duration of one single pulse.

Set the EUT for DH5, DH3 and DH1 packet transmitting.

Measure the maximum time duration of one single pulse.

7.5.6 Test Results

EUT:	CONTROLLER	Model No.:	LC-RGBDRMV2
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Nikki Yang

Test data reference attachment.

7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

7.6.2 Conformance Limit

No limit requirement.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 clause 6.9.2

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW = 1% to 5% of the OBW

VBW $\geq$ 3RBW

Sweep = auto

Detector function = peak

Trace = max hold

7.6.6 Test Results

EUT:	CONTROLLER	Model No.:	LC-RGBDRMV2
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Nikki Yang

Test data reference attachment.

7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

7.7.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 clause 7.8.5.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW $\geq$ the 20 dB bandwidth of the emission being measured

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

7.7.6 Test Results

EUT:	CONTROLLER	Model No.:	LC-RGBDRMV2
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Nikki Yang

Test data reference attachment.

7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

7.8.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 clause 7.8.6. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = 100KHz

VBW = 300KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.8.6 Test Results

EUT:	CONTROLLER	Model No.:	LC-RGBDRMV2
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Nikki Yang

Test data reference attachment.

7.9 SPURIOUS RF CONDUCTED EMISSION

7.9.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

7.9.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.9.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
 - b) Set the RBW = 100 kHz.
 - c) Set the VBW $\geq [3 \times \text{RBW}]$.
 - d) Detector = peak.
 - e) Sweep time = auto couple.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - h) Use the peak marker function to determine the maximum amplitude level.
- Then the limit shall be attenuated by at least 20 dB relative to the maximum amplitude level in 100 kHz.

7.9.6 Test Results

Remark: The measurement frequency range is from 30MHzHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

Test data reference attachment.

7.10 ANTENNA APPLICATION

7.10.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.10.2 Result

The EUT antenna is permanent attached FPC Antenna (Gain: 0dBi). It comply with the standard requirement.

7.11 FREQUENCY HOPPING SYSTEM (FHSS) EQUIPMENT REQUIREMENTS

7.11.1 Standard Applicable

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals. (g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section. (h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

7.11.2 Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule. This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock. Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with an bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements for FCC Part 15.247 rule.

7.11.3 EUT Pseudorandom Frequency Hopping Sequence

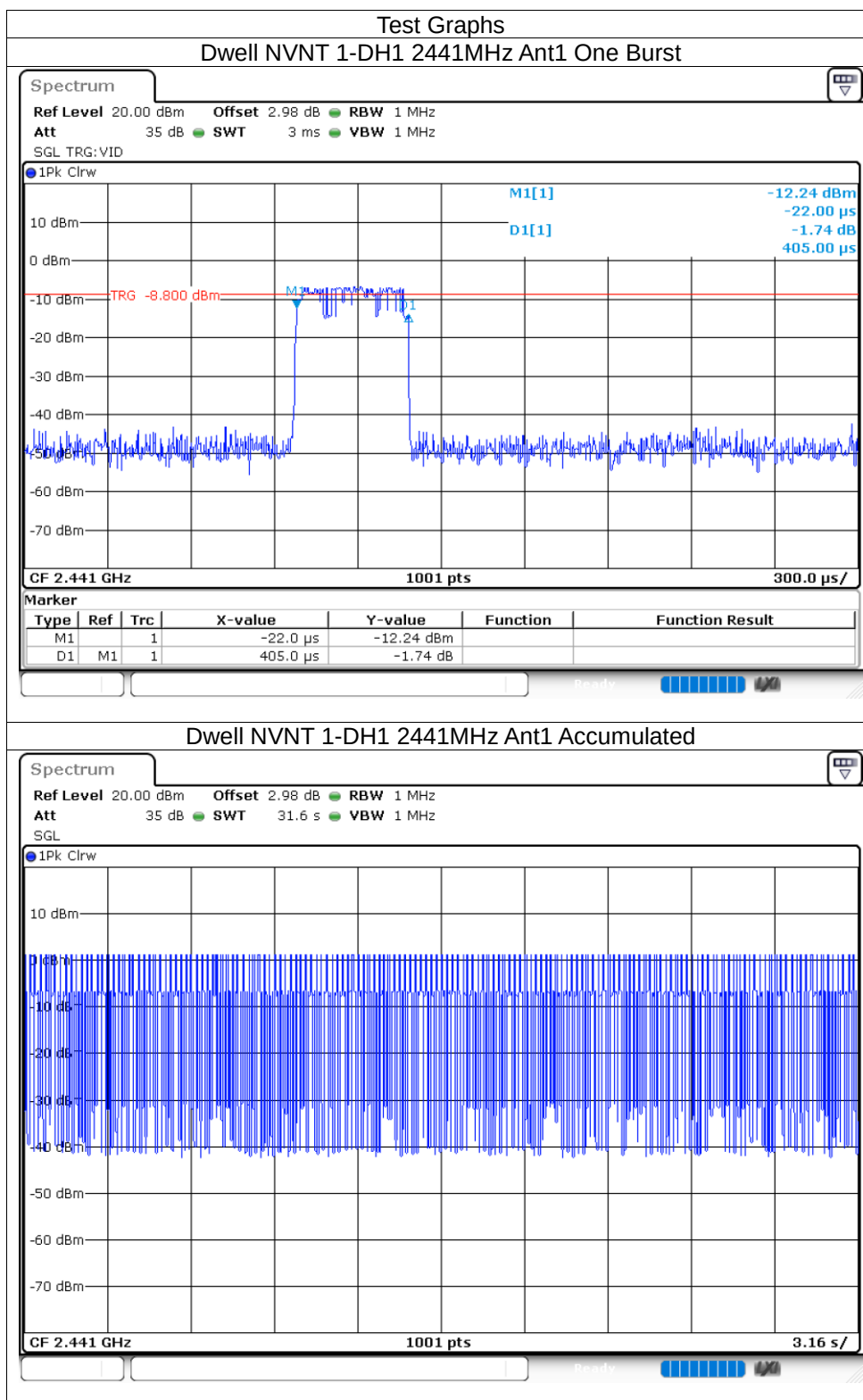
Pseudorandom Frequency Hopping Sequence Table as below: Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

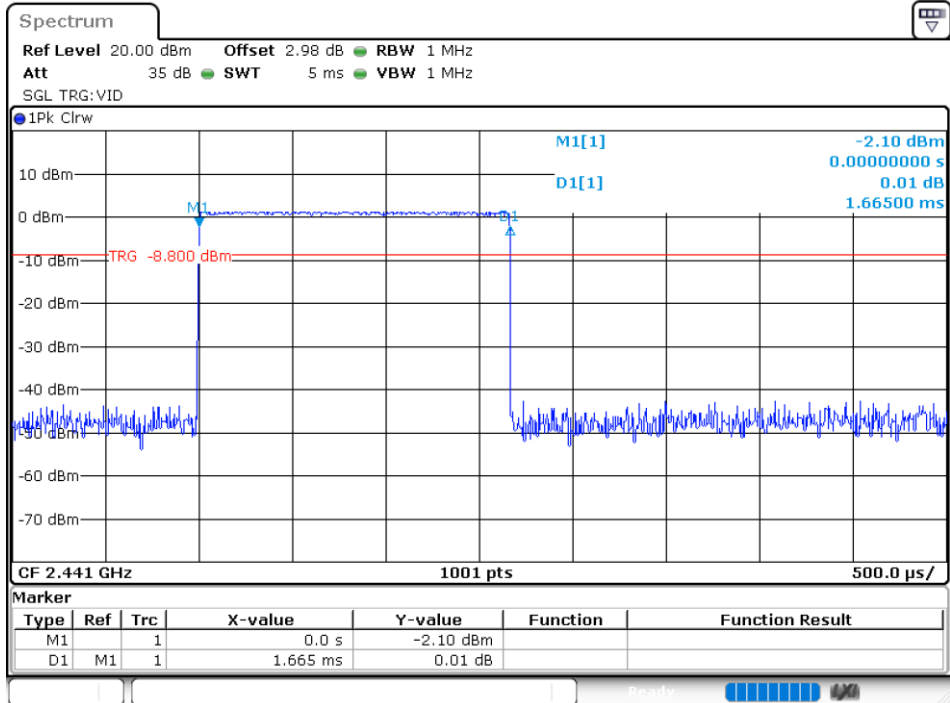
8 TEST RESULTS

8.1 DWELL TIME

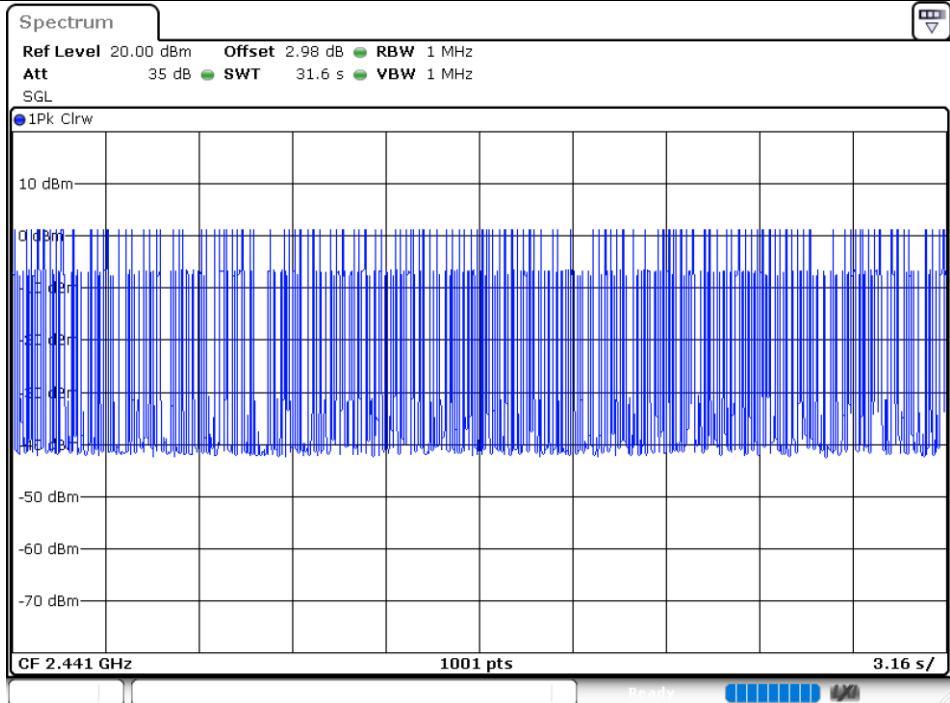
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.405	84.24	208	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.665	228.105	137	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.92	277.4	95	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.414	89.424	216	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.665	233.1	140	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.92	265.72	91	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.417	90.489	217	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.665	221.445	133	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.92	259.88	89	31600	400	Pass



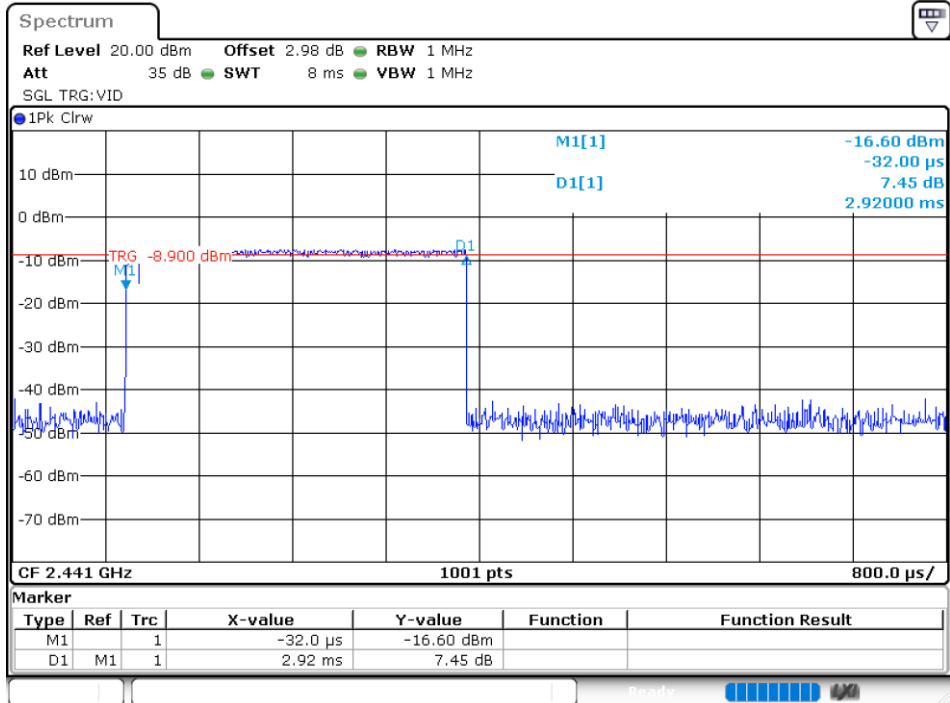
Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



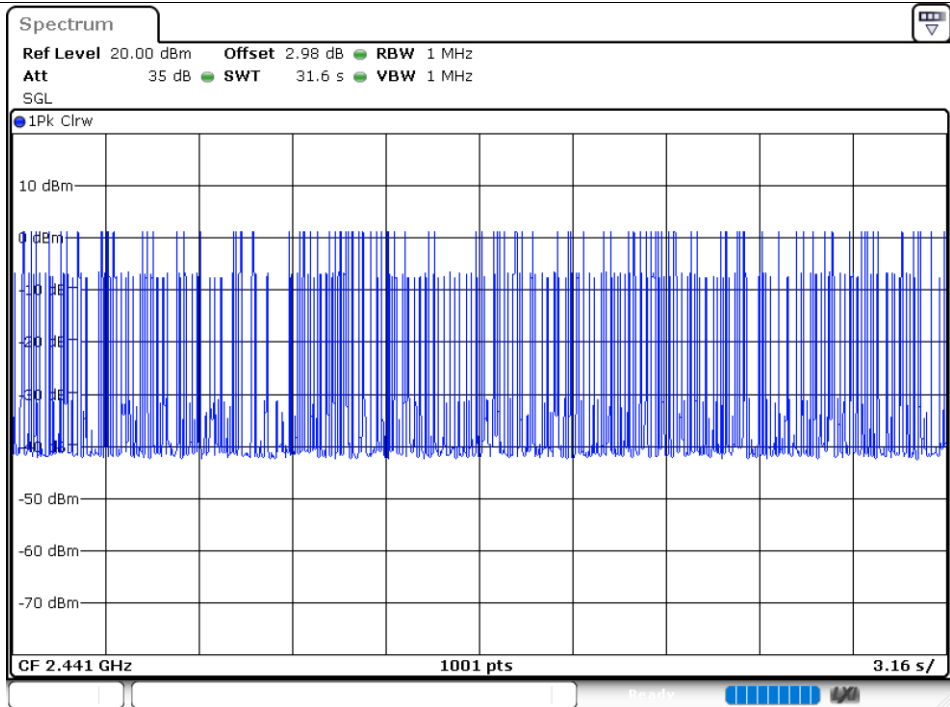
Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



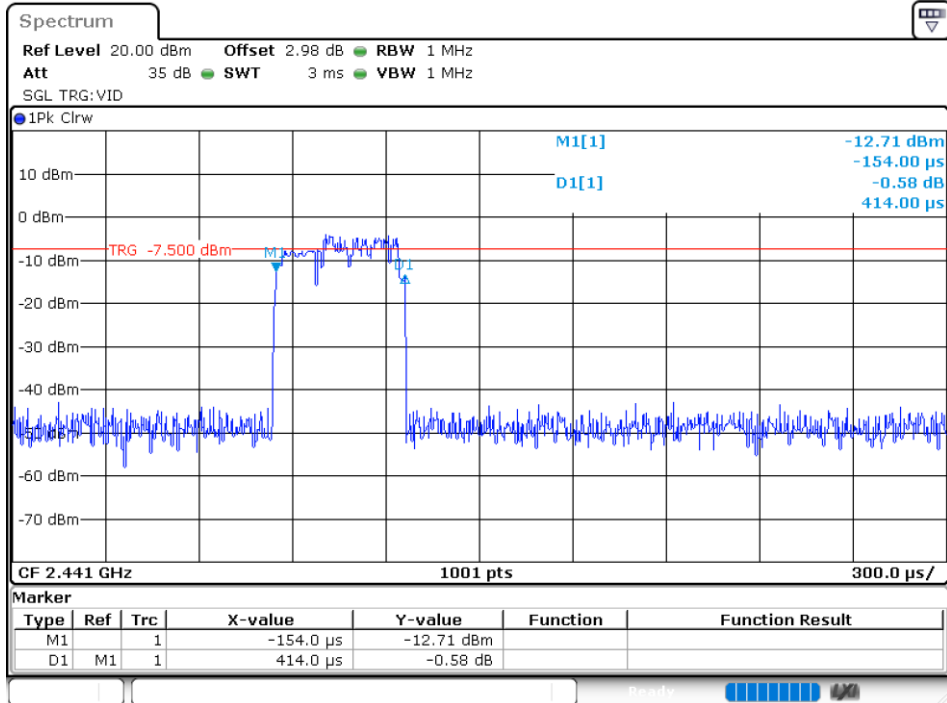
Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



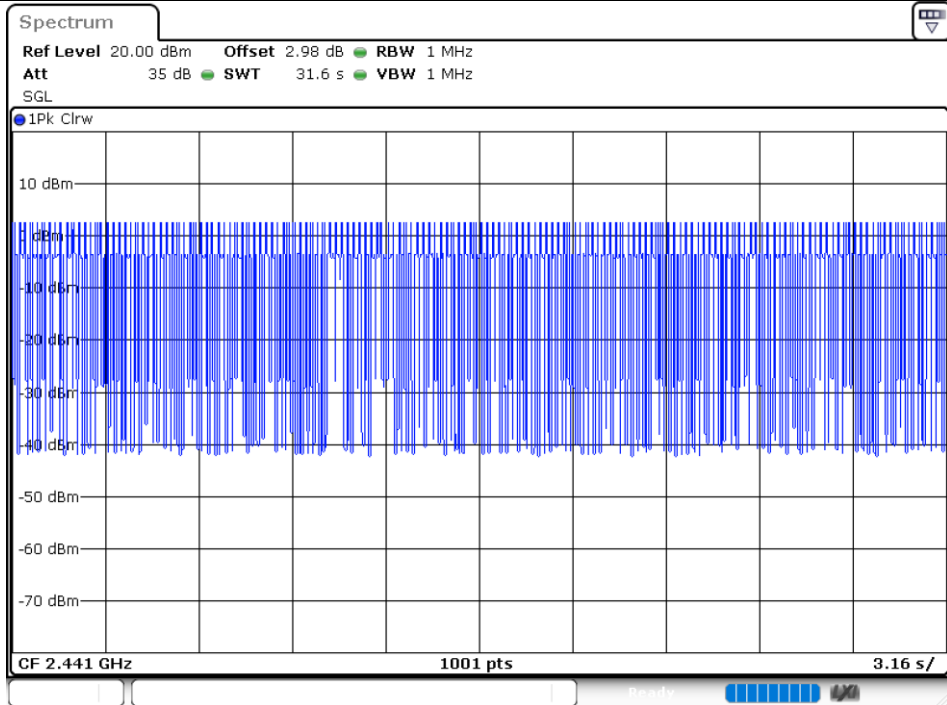
Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



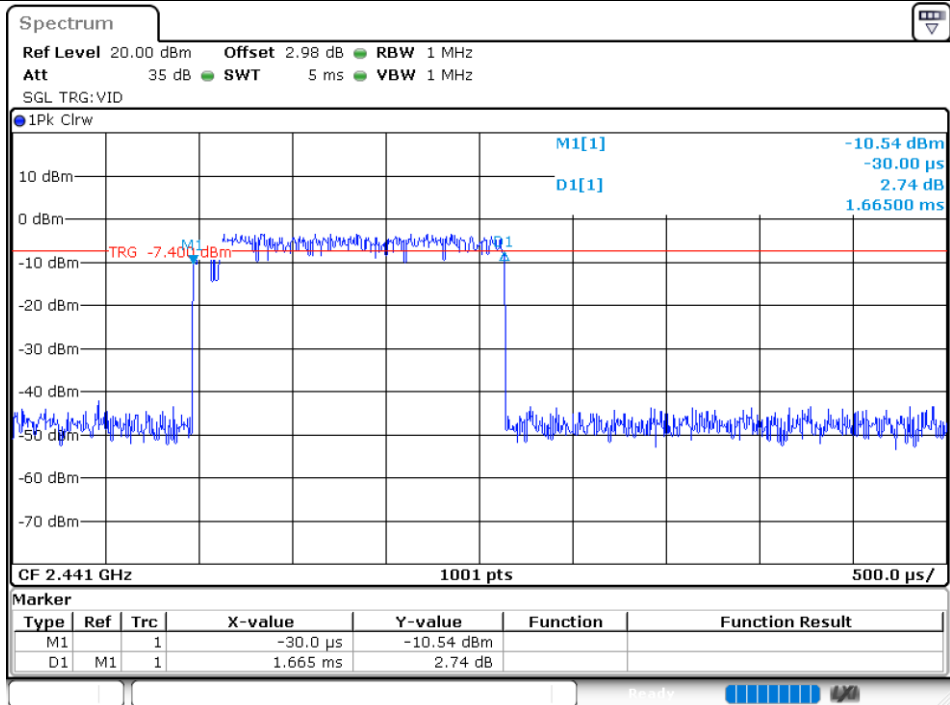
Dwell NVNT 2-DH1 2441MHz Ant1 One Burst



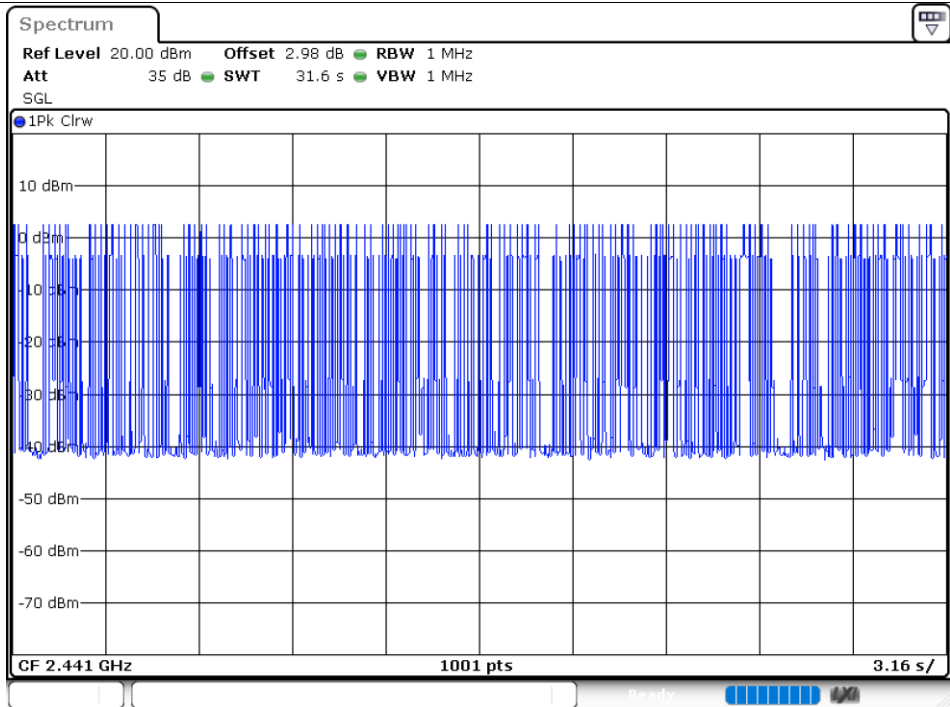
Dwell NVNT 2-DH1 2441MHz Ant1 Accumulated



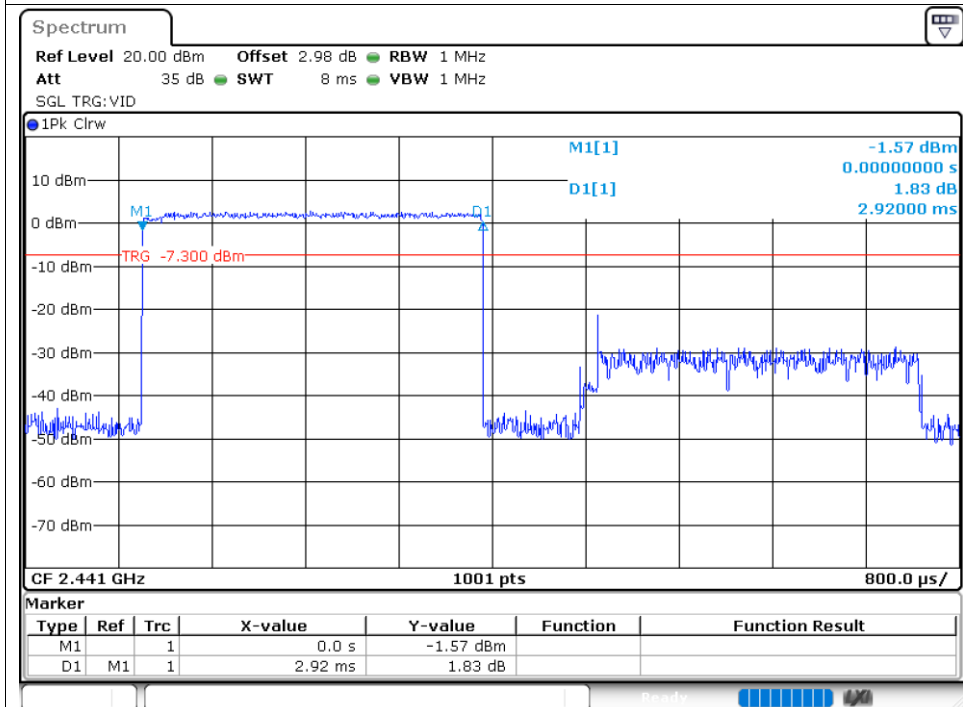
Dwell NVNT 2-DH3 2441MHz Ant1 One Burst



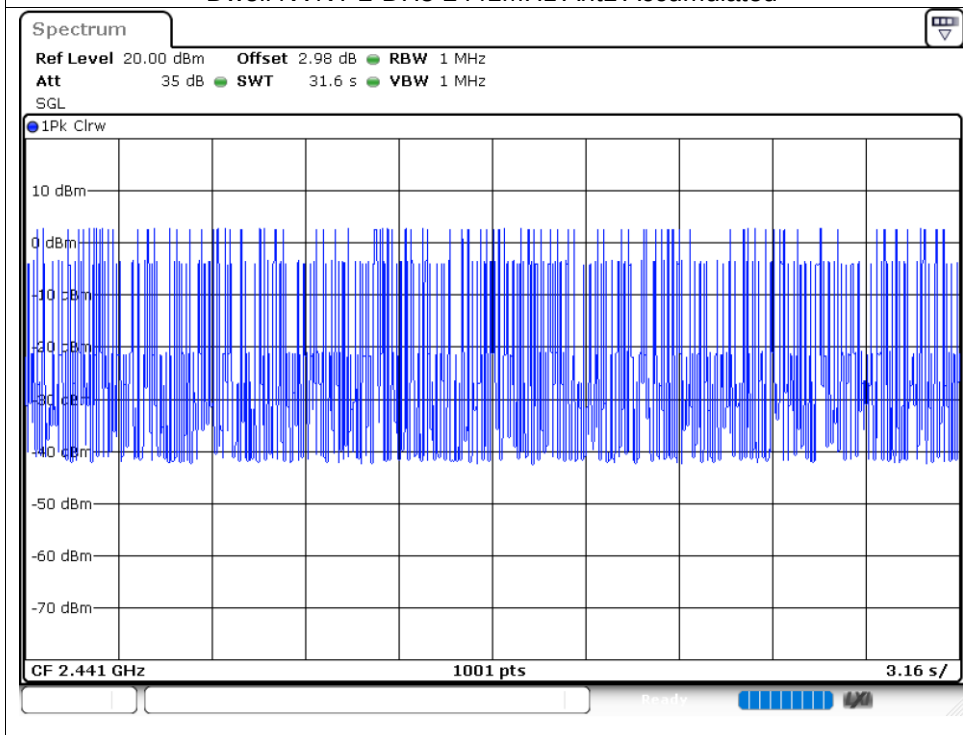
Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



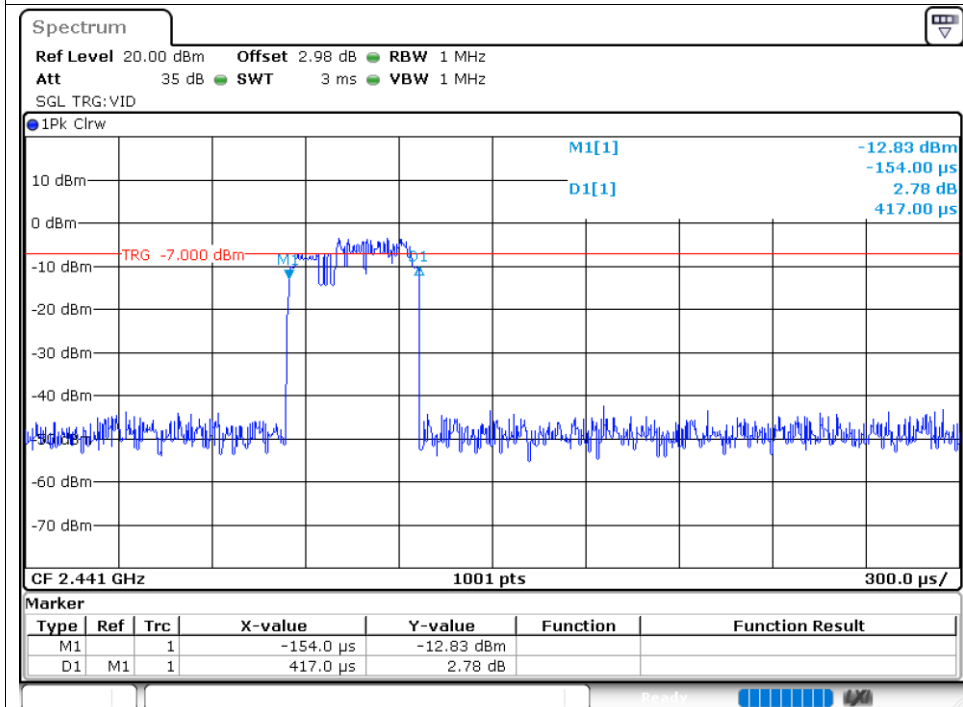
Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



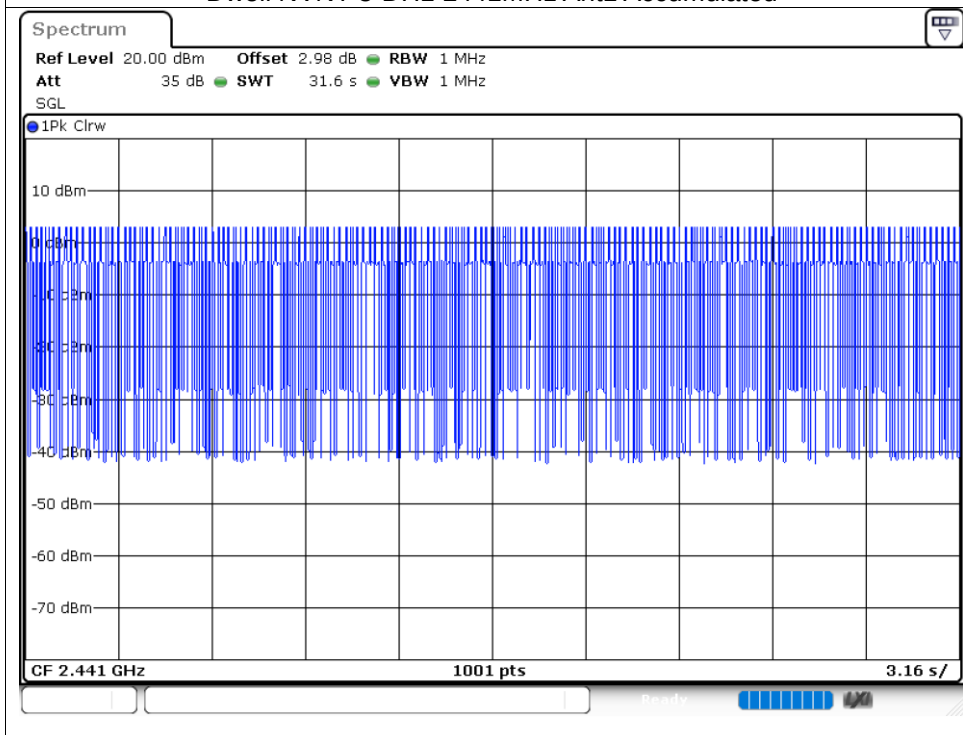
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



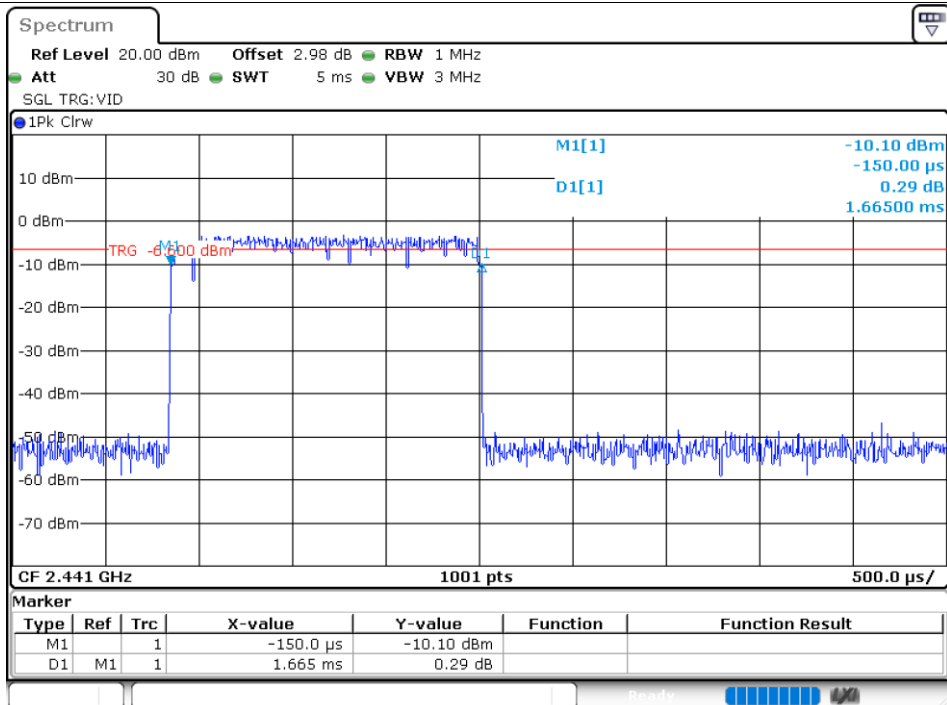
Dwell NVNT 3-DH1 2441MHz Ant1 One Burst



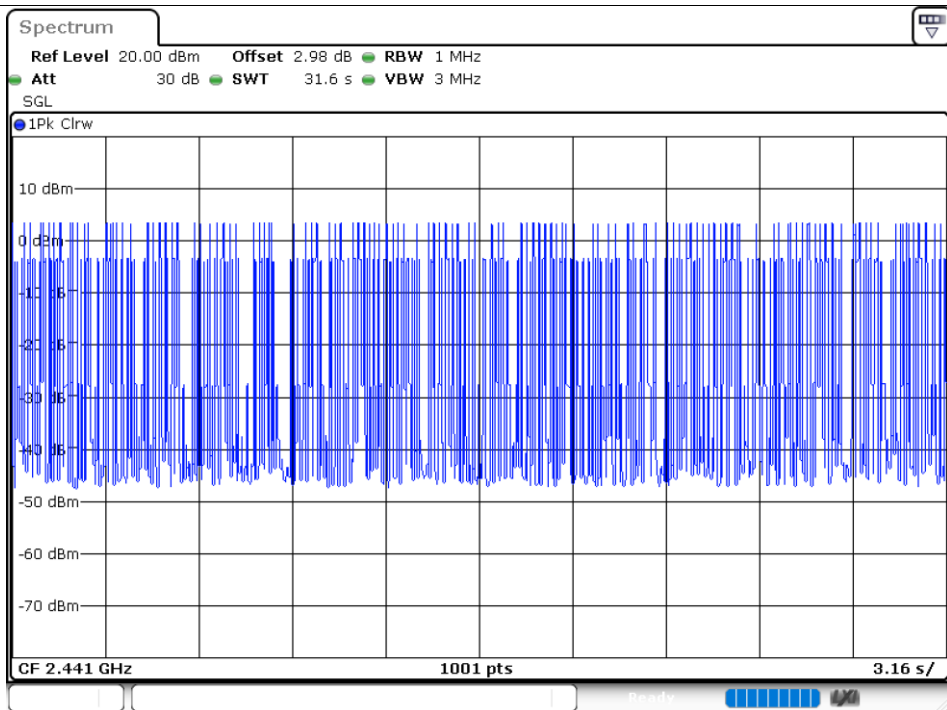
Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated



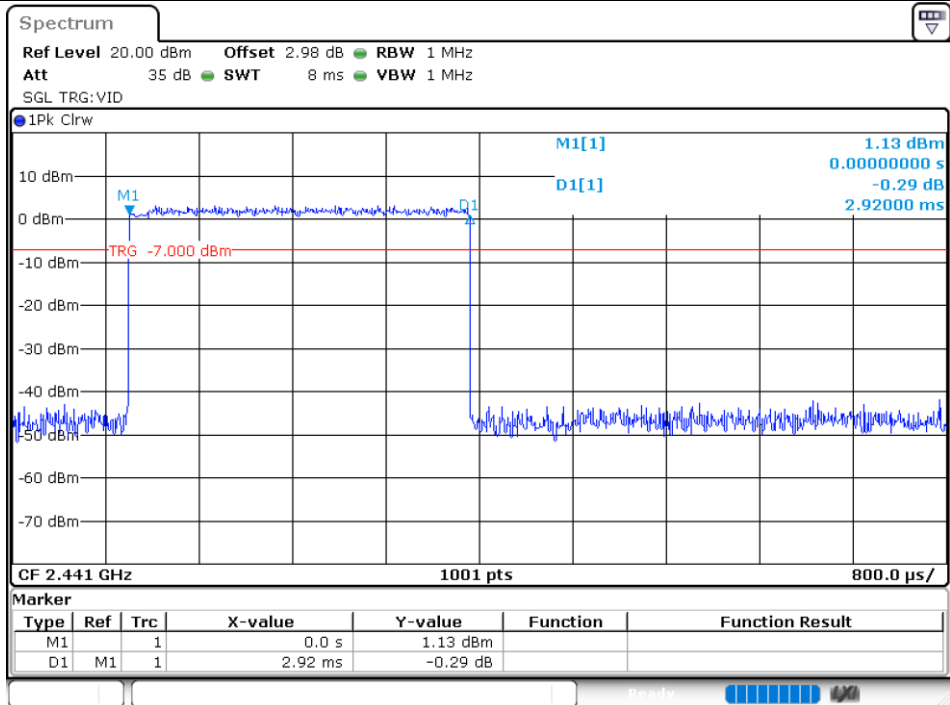
Dwell NVNT 3-DH3 2441MHz Ant1 One Burst



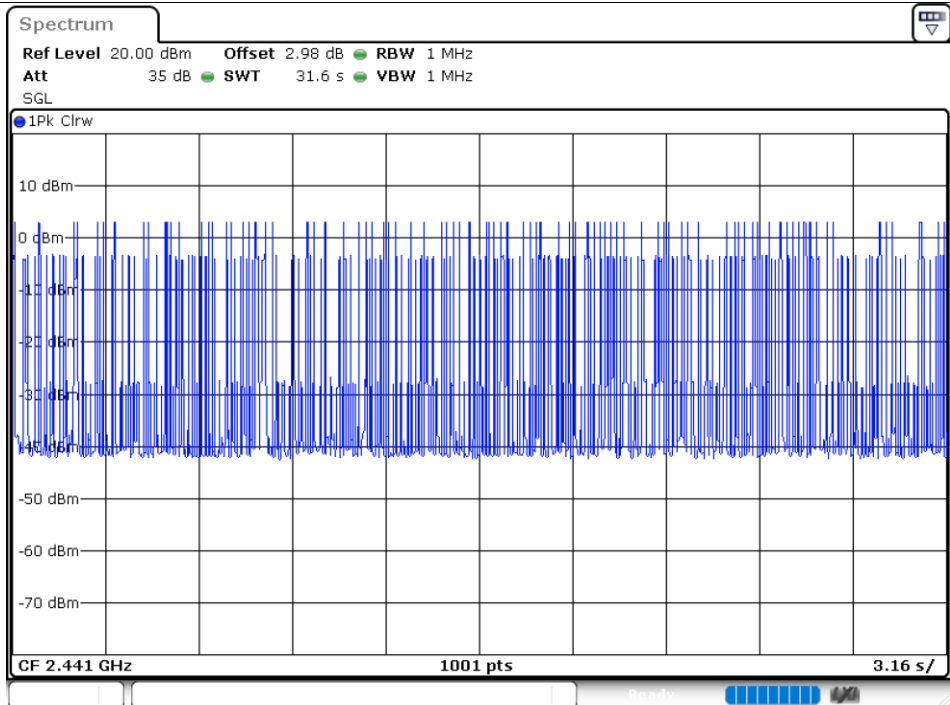
Dwell NVNT 3-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2441MHz Ant1 One Burst

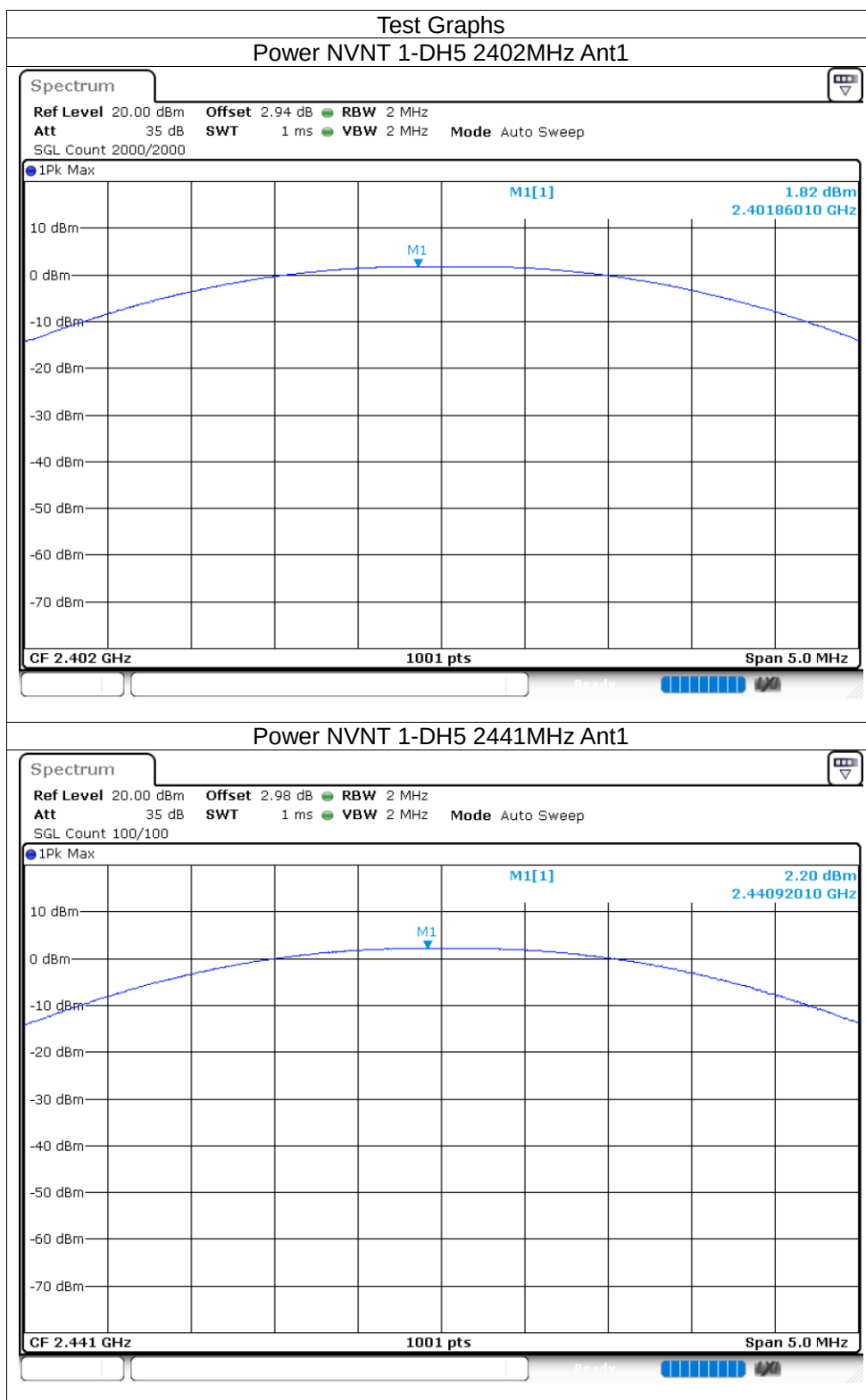


Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

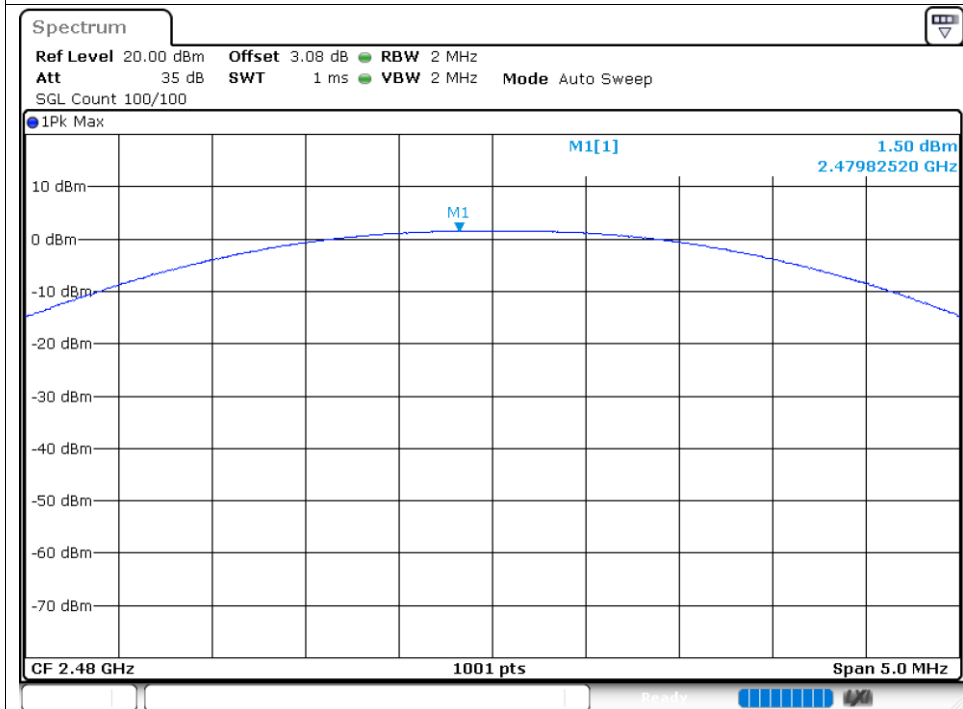


8.2 MAXIMUM CONDUCTED OUTPUT POWER

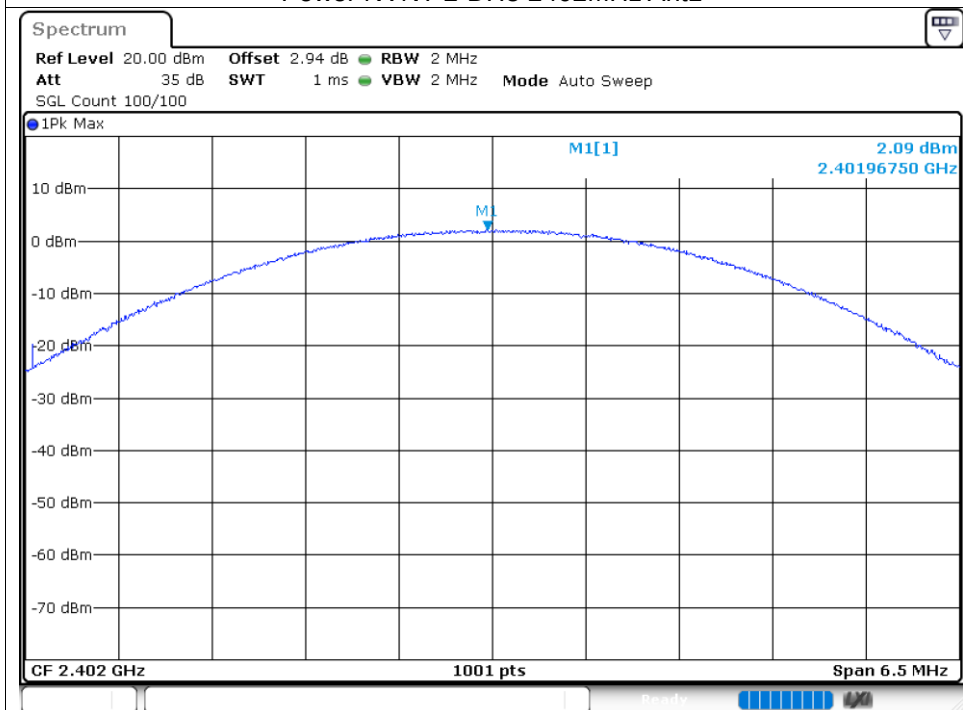
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.82	21	Pass
NVNT	1-DH5	2441	Ant1	2.2	21	Pass
NVNT	1-DH5	2480	Ant1	1.5	21	Pass
NVNT	2-DH5	2402	Ant1	2.09	21	Pass
NVNT	2-DH5	2441	Ant1	2.56	21	Pass
NVNT	2-DH5	2480	Ant1	1.76	21	Pass
NVNT	3-DH5	2402	Ant1	2.58	21	Pass
NVNT	3-DH5	2441	Ant1	2.78	21	Pass
NVNT	3-DH5	2480	Ant1	2.14	21	Pass



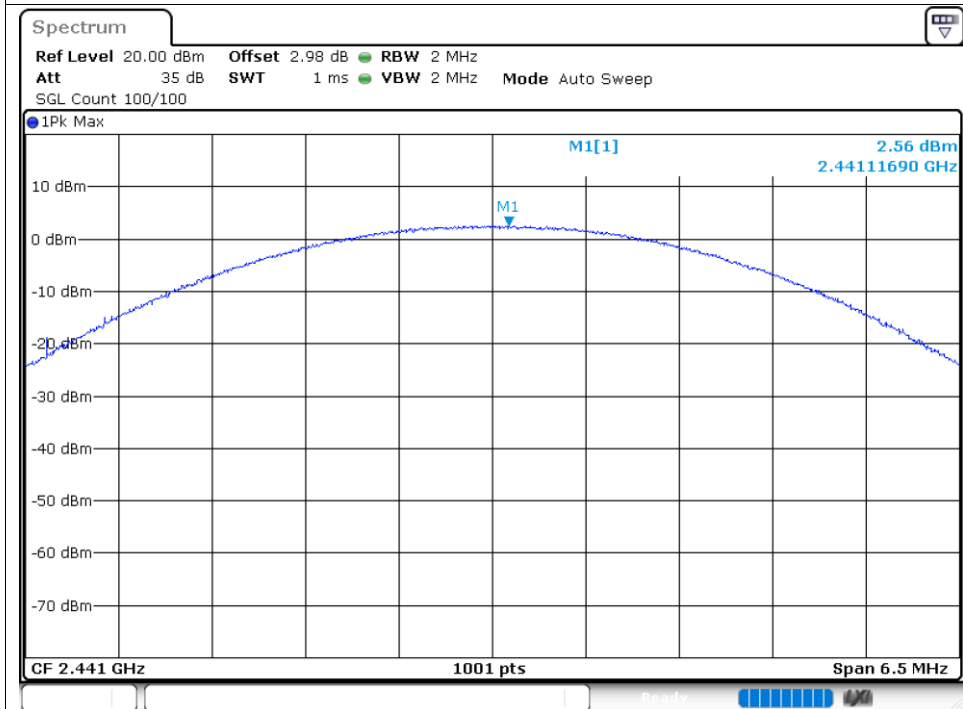
Power NVNT 1-DH5 2480MHz Ant1



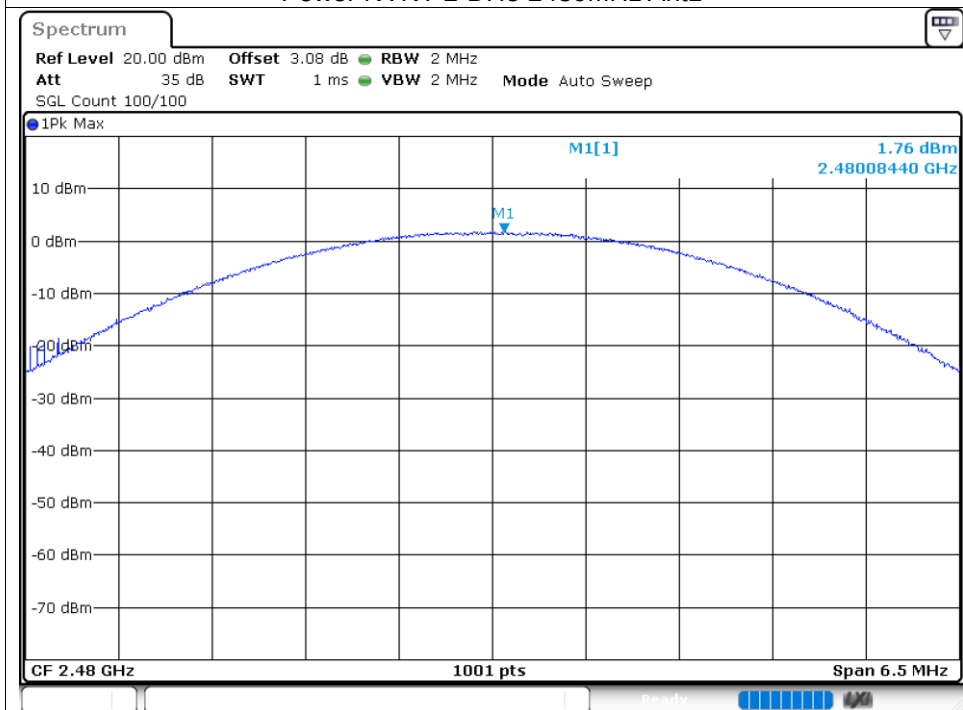
Power NVNT 2-DH5 2402MHz Ant1



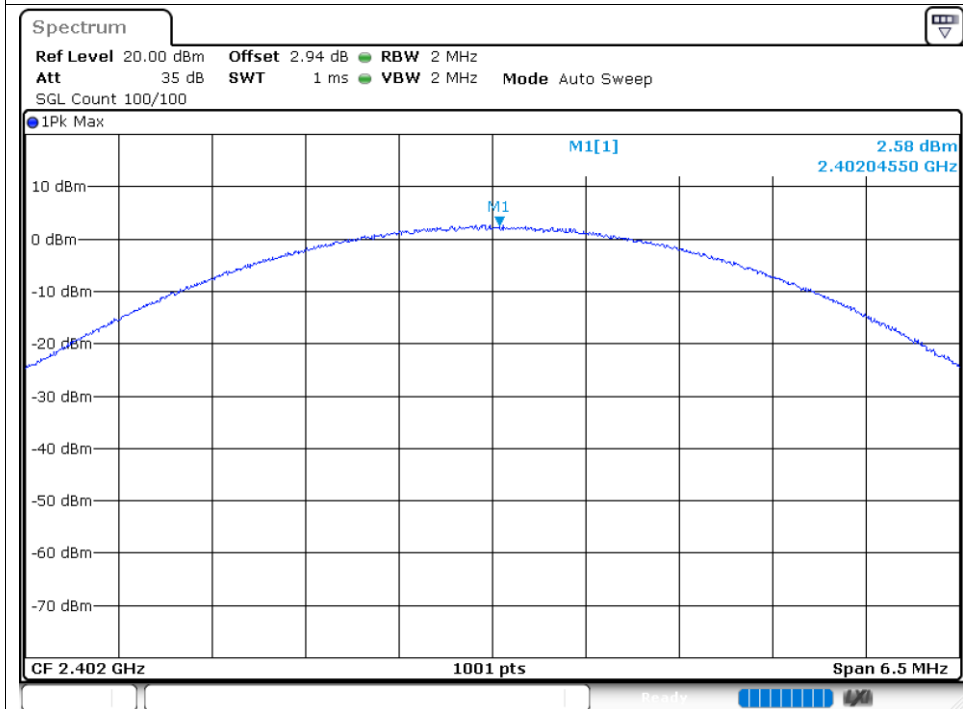
Power NVNT 2-DH5 2441MHz Ant1



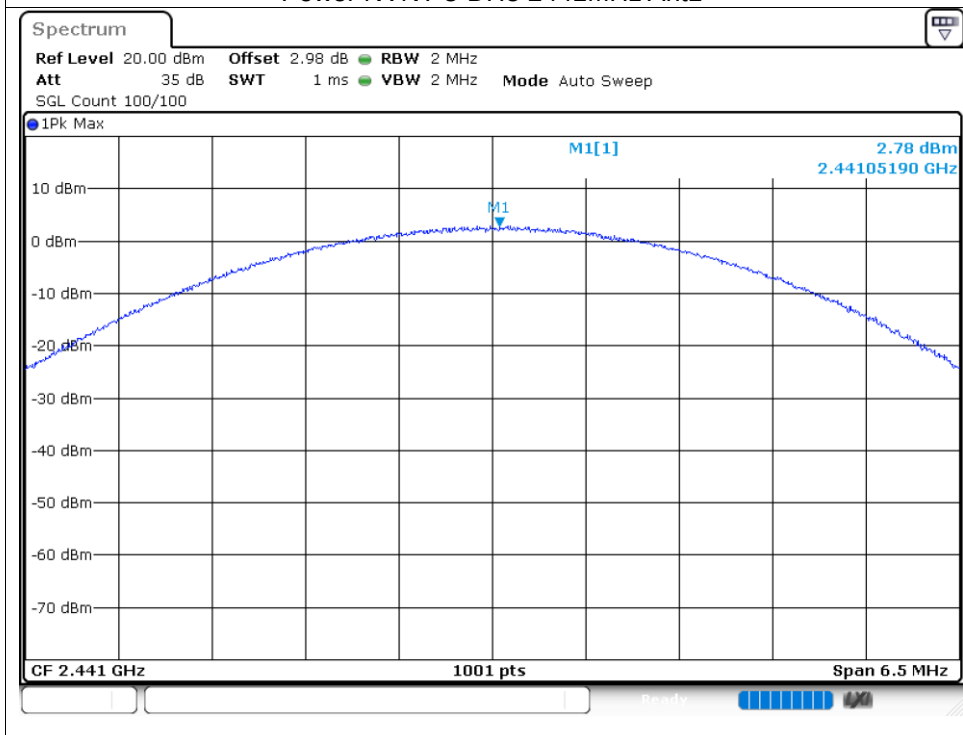
Power NVNT 2-DH5 2480MHz Ant1

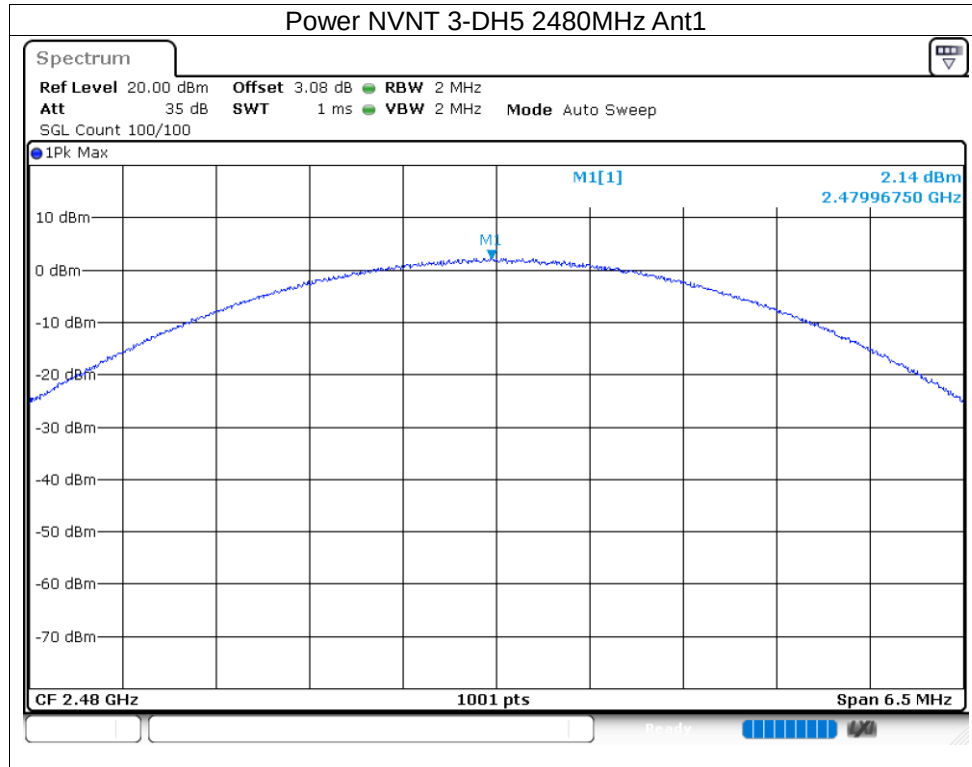


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1





8.3 -20dB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.924	Pass
NVNT	1-DH5	2441	Ant1	0.954	Pass
NVNT	1-DH5	2480	Ant1	0.958	Pass
NVNT	2-DH5	2402	Ant1	1.332	Pass
NVNT	2-DH5	2441	Ant1	1.344	Pass
NVNT	2-DH5	2480	Ant1	1.326	Pass
NVNT	3-DH5	2402	Ant1	1.286	Pass
NVNT	3-DH5	2441	Ant1	1.318	Pass
NVNT	3-DH5	2480	Ant1	1.272	Pass

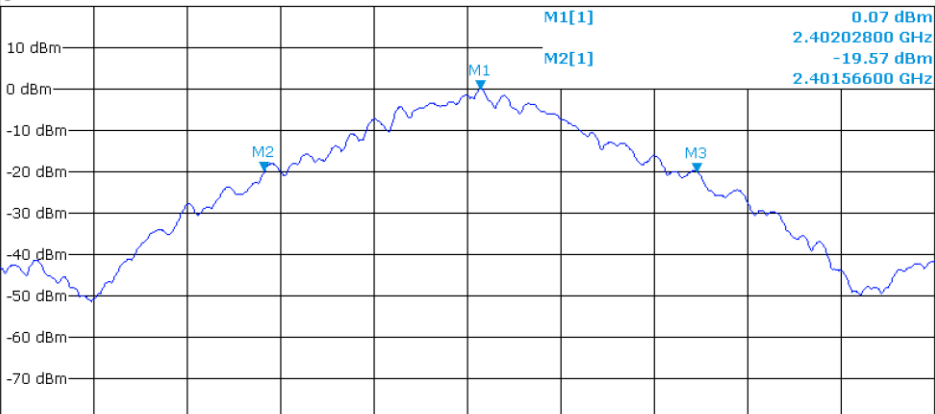
Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.94 dB RBW 30 kHz
Att 35 dB SWT 63.3 μ s VBW 100 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max



CF 2.402 GHz 1001 pts Span 2.0 MHz

Marker

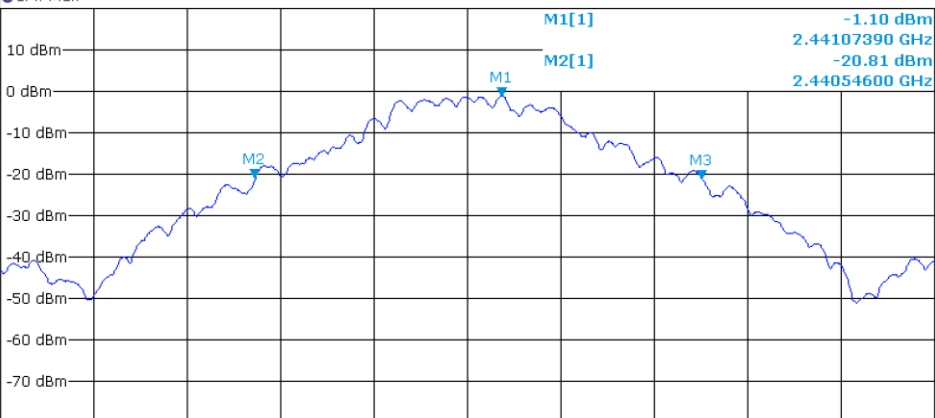
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	2.402028 GHz	0.07 dBm		
M2	1	1	2.401566 GHz	-19.57 dBm		
M3	1	1	2.40249 GHz	-19.93 dBm		

-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.98 dB RBW 30 kHz
Att 35 dB SWT 63.3 μ s VBW 100 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

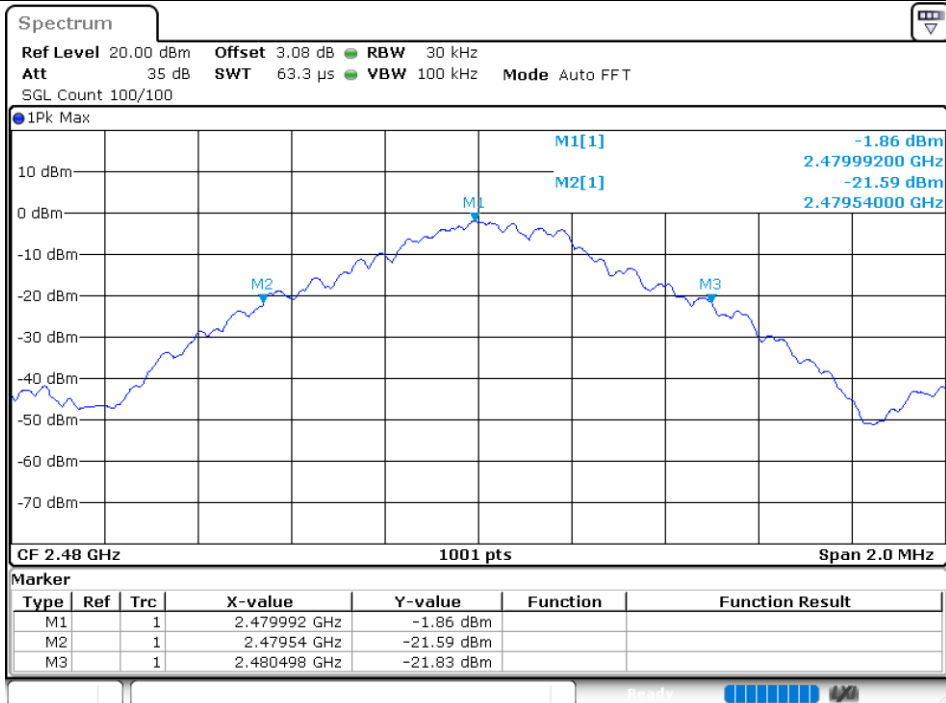


CF 2.441 GHz 1001 pts Span 2.0 MHz

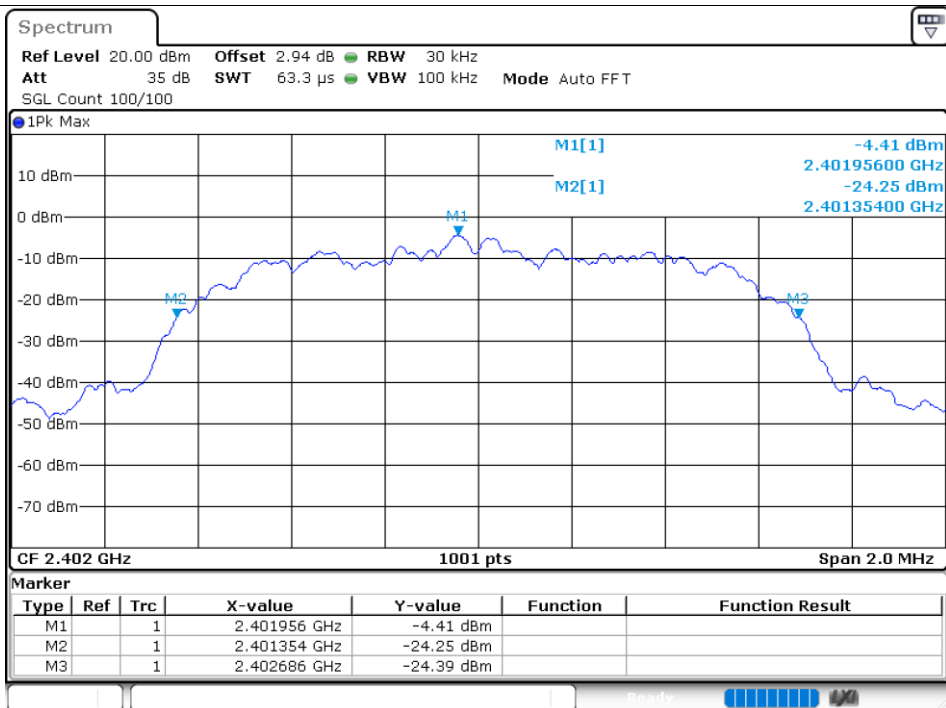
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	2.4410739 GHz	-1.10 dBm		
M2	1	1	2.440546 GHz	-20.81 dBm		
M3	1	1	2.4415 GHz	-21.02 dBm		

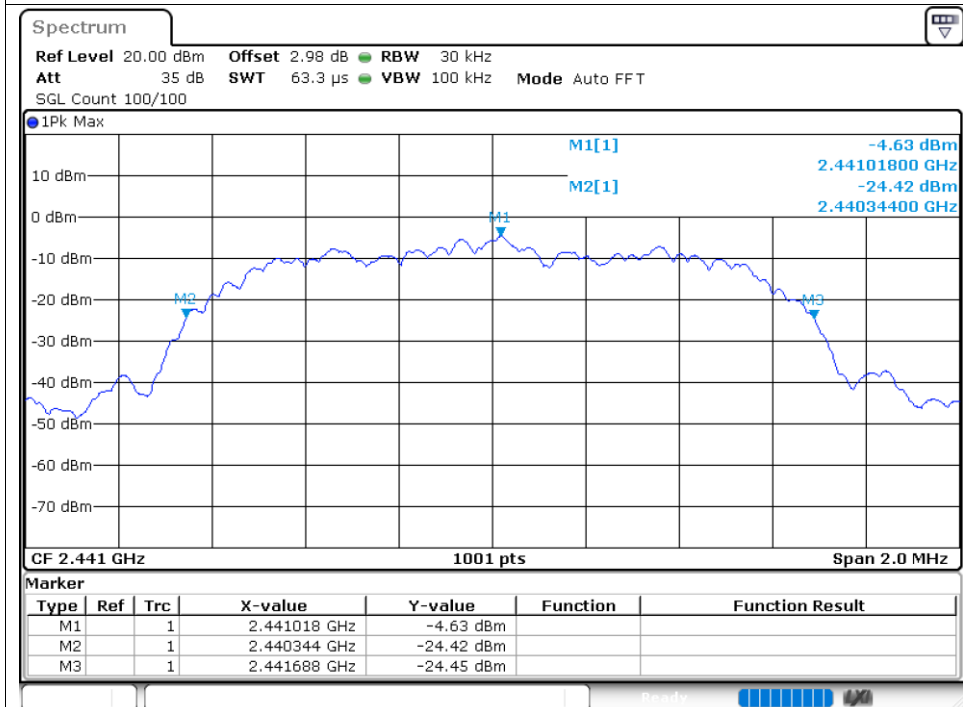
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



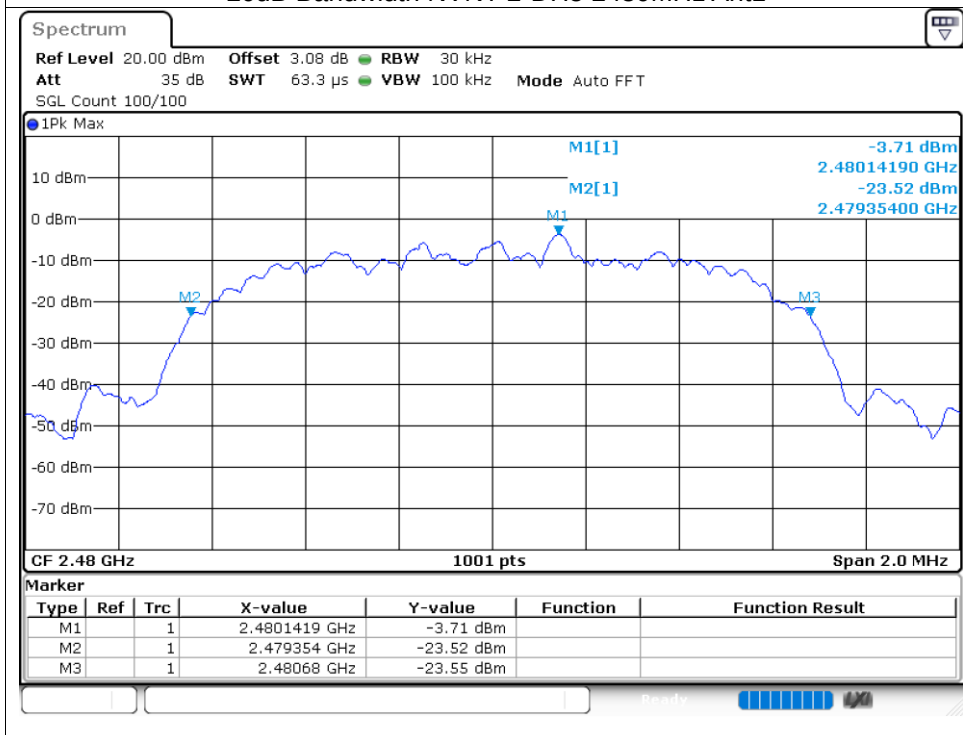
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



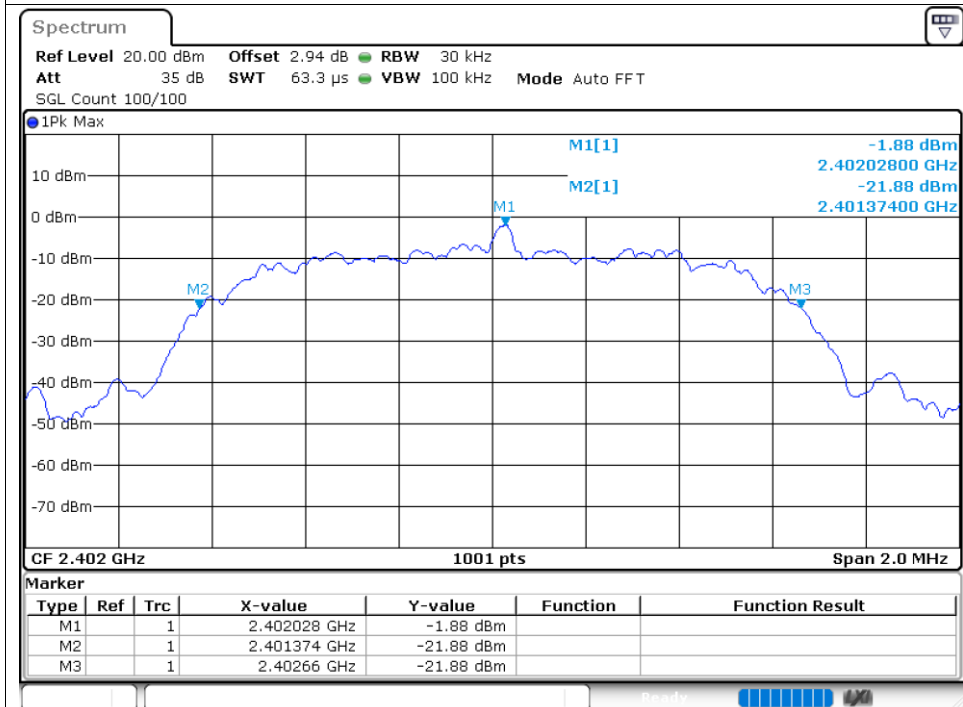
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



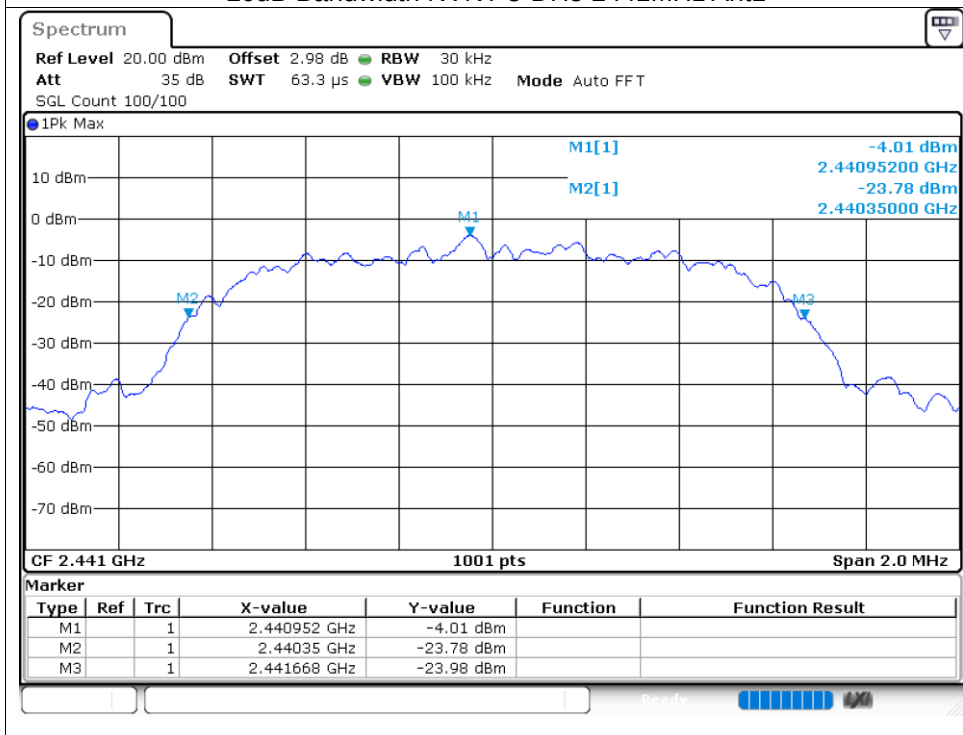
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

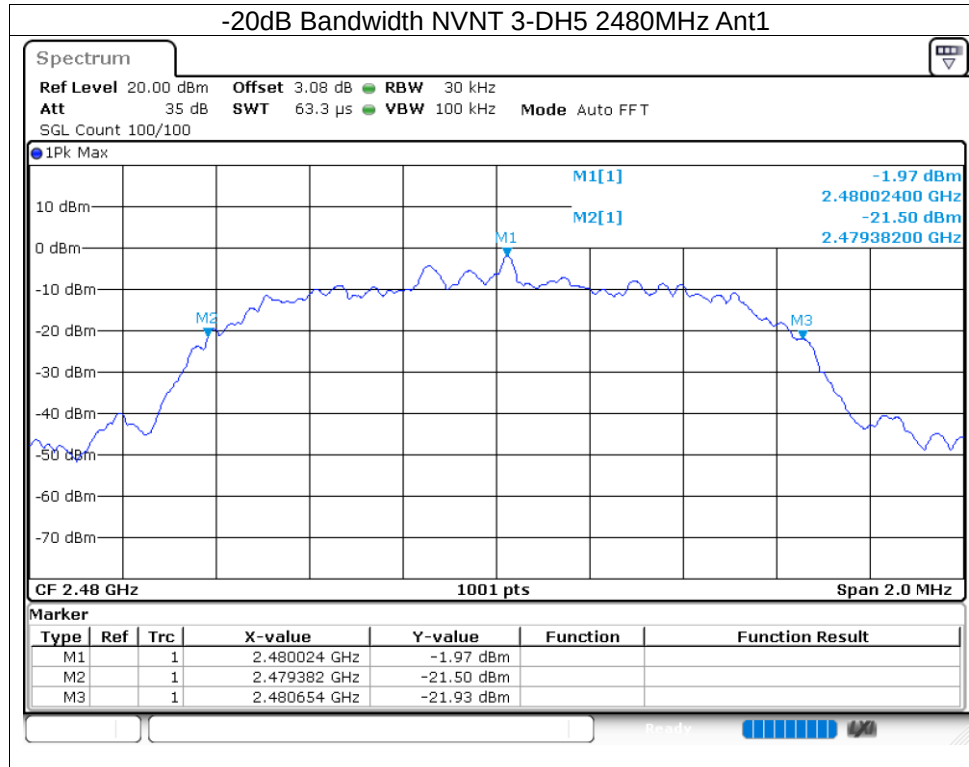


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





8.4 OCCUPIED CHANNEL BANDWIDTH

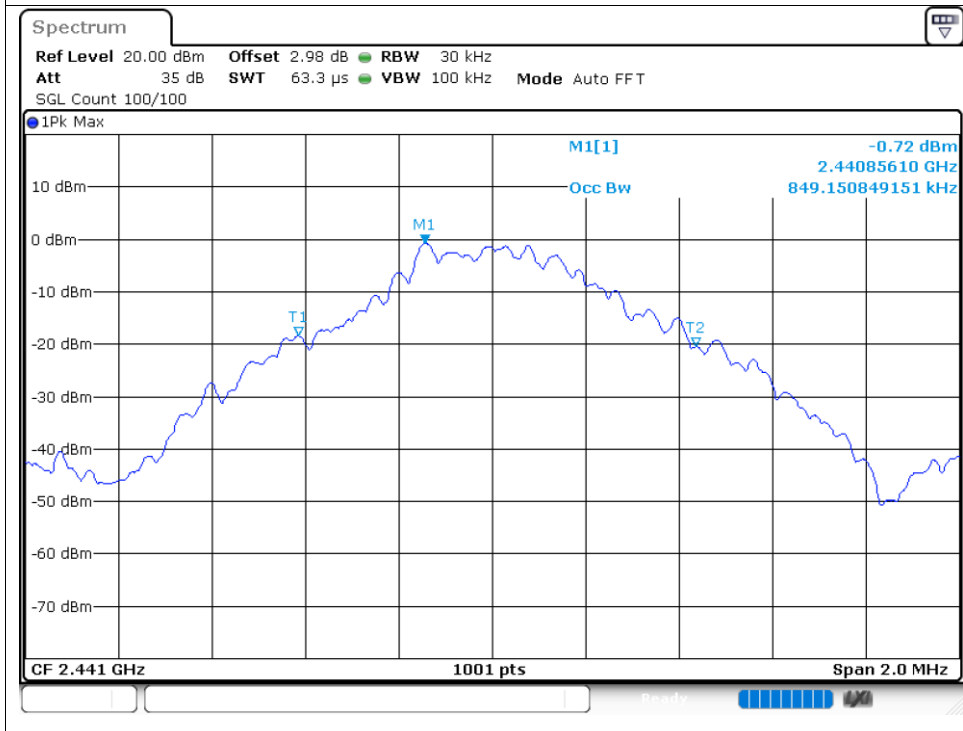
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.865
NVNT	1-DH5	2441	Ant1	0.849
NVNT	1-DH5	2480	Ant1	0.837
NVNT	2-DH5	2402	Ant1	1.183
NVNT	2-DH5	2441	Ant1	1.185
NVNT	2-DH5	2480	Ant1	1.193
NVNT	3-DH5	2402	Ant1	1.185
NVNT	3-DH5	2441	Ant1	1.181
NVNT	3-DH5	2480	Ant1	1.181

Test Graphs

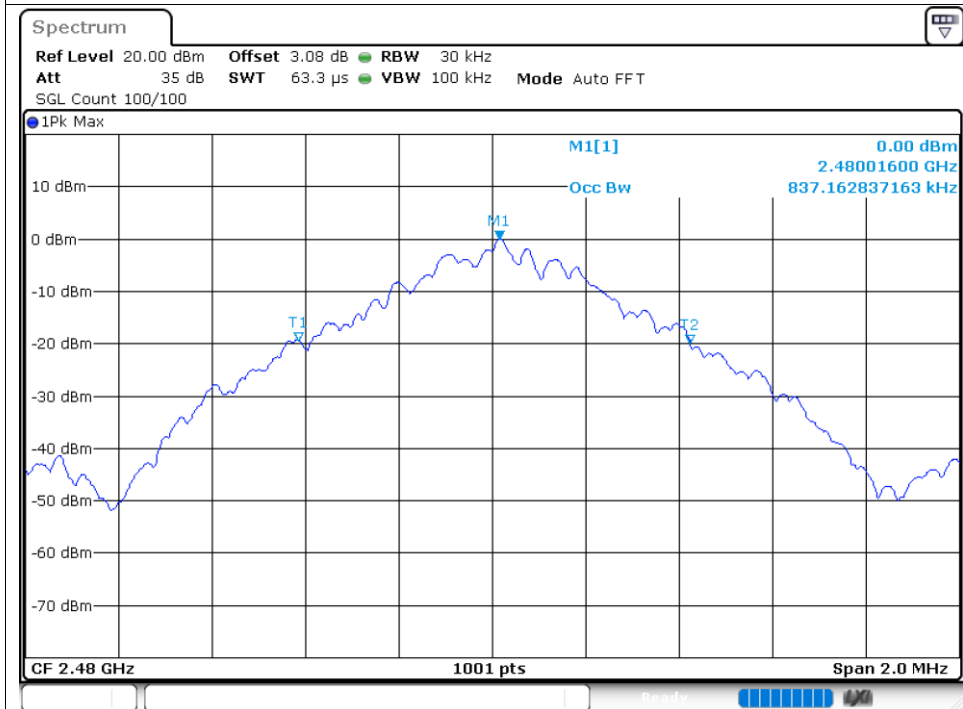
OBW NVNT 1-DH5 2402MHz Ant1



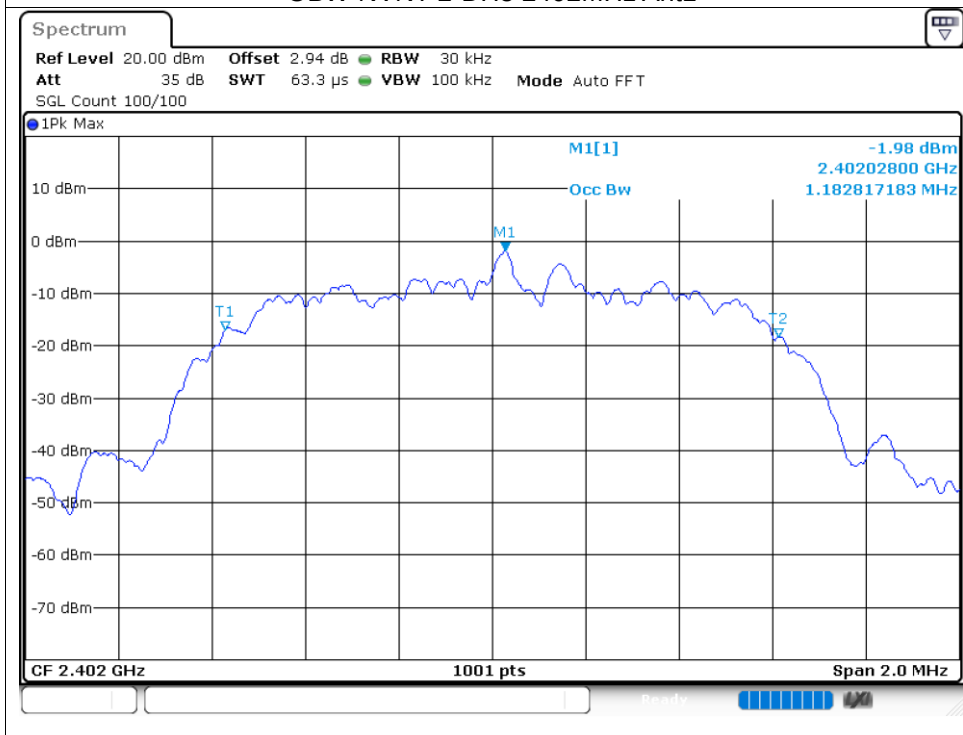
OBW NVNT 1-DH5 2441MHz Ant1



OBW NVNT 1-DH5 2480MHz Ant1



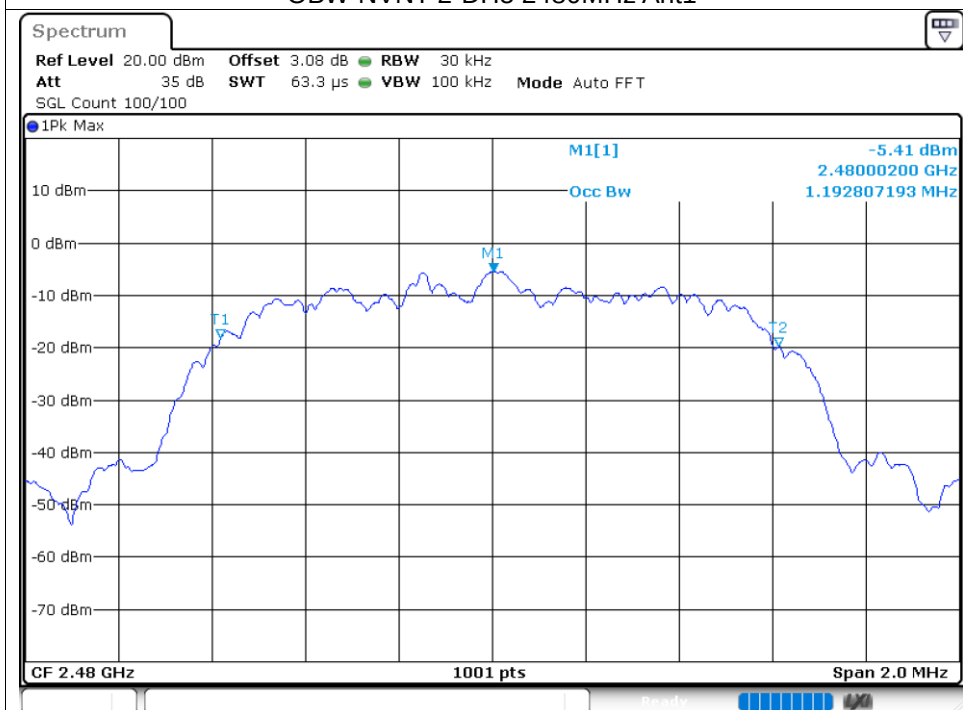
OBW NVNT 2-DH5 2402MHz Ant1



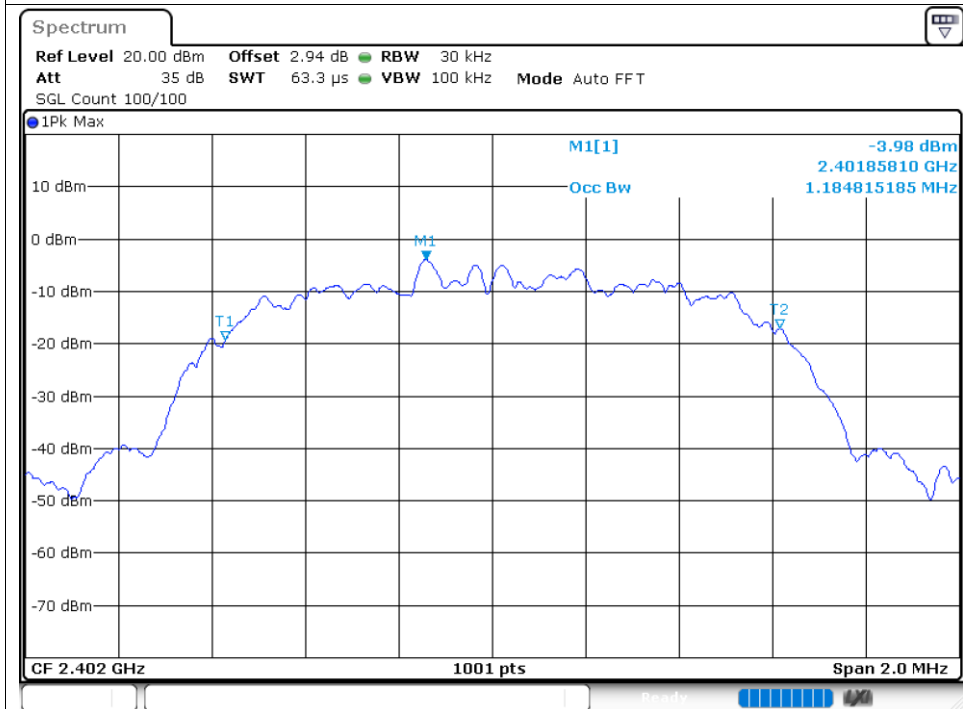
OBW NVNT 2-DH5 2441MHz Ant1



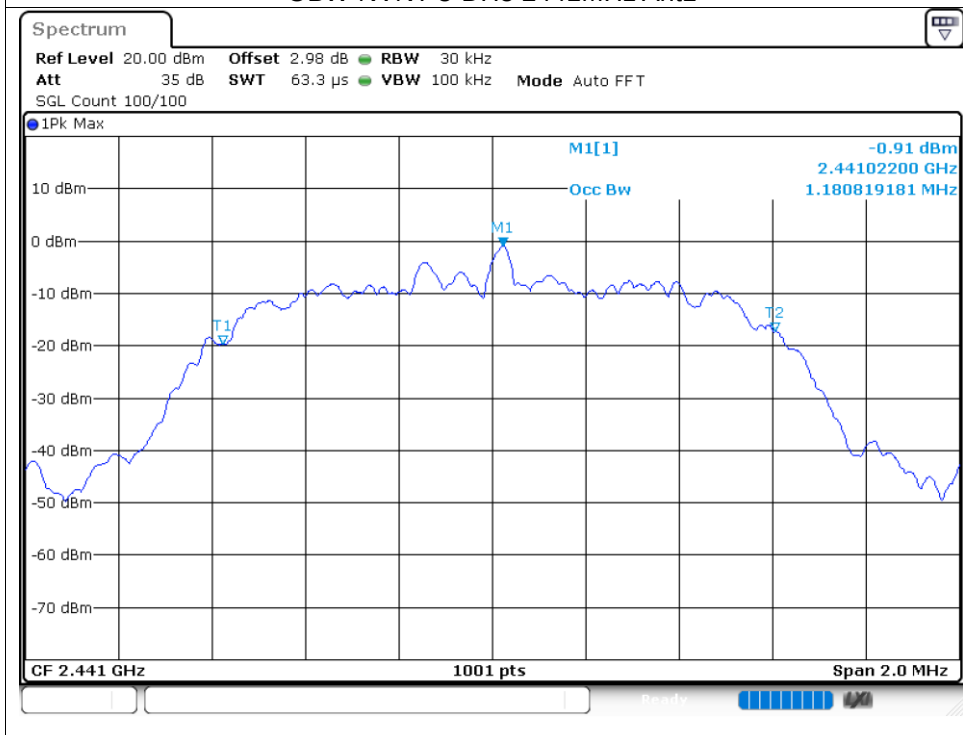
OBW NVNT 2-DH5 2480MHz Ant1

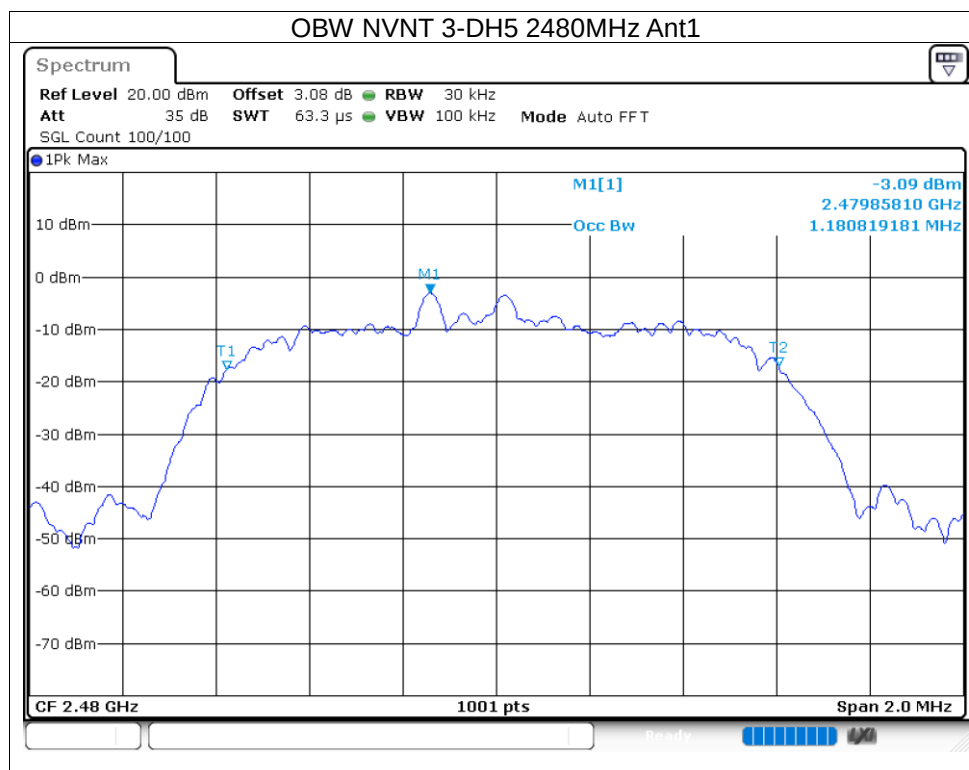


OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



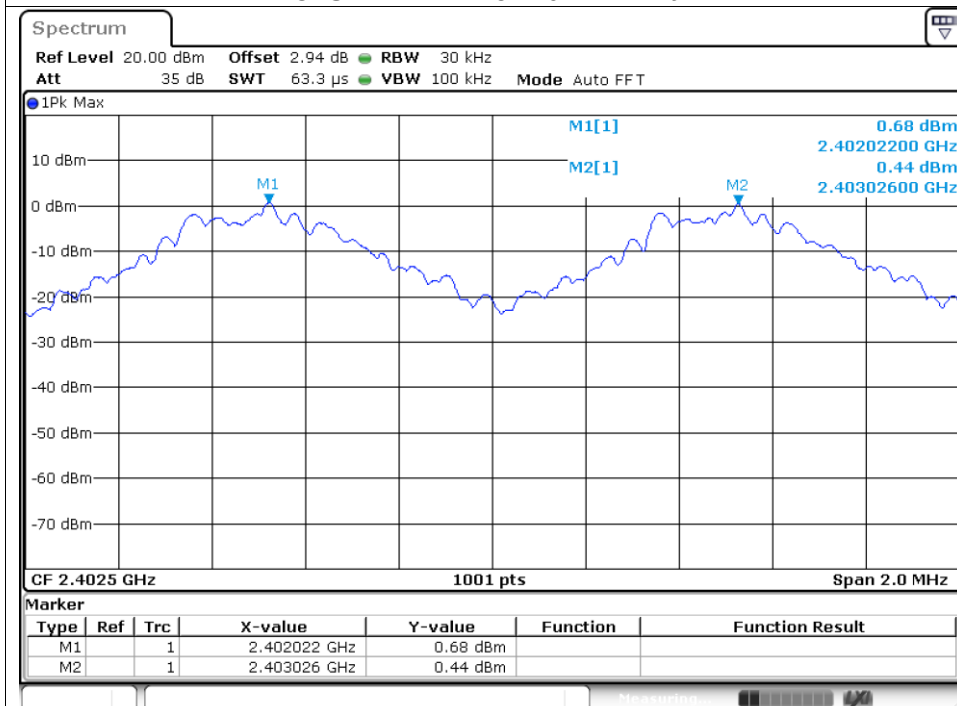


8.5 CARRIER FREQUENCIES SEPARATION

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.022	2403.026	1.004	0.616	Pass
NVNT	1-DH5	Ant1	2440.856	2441.858	1.002	0.636	Pass
NVNT	1-DH5	Ant1	2479.016	2480.022	1.006	0.639	Pass
NVNT	2-DH5	Ant1	2402.022	2403.028	1.006	0.888	Pass
NVNT	2-DH5	Ant1	2440.953	2441.955	1.002	0.896	Pass
NVNT	2-DH5	Ant1	2478.951	2479.951	1	0.884	Pass
NVNT	3-DH5	Ant1	2402.022	2403.022	1	0.857	Pass
NVNT	3-DH5	Ant1	2441.119	2442.152	1.033	0.879	Pass
NVNT	3-DH5	Ant1	2479.018	2480.02	1.002	0.848	Pass

Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 1-DH5 2441MHz Ant1

